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Herbal treatment cuts colds by half

Study proves effectiveness of COLD-fX

By Beverly Betkowski

A breakthrough product developed to combat colds and flu has been proven to significantly cut the incidence, duration and severity of the common cold.

Clinical trial results, appearing in the current issue of the Canadian Medical Association Journal, show that the anti-cold, anti-flu remedy COLD-fX reduced the incidence and frequency of recurrent colds by more than half. It also cut the duration of colds and significantly reduced their severity.

The double-blind, placebo-controlled study on the prevention and relief of upper-respiratory infections was conducted on COLD-fX by Dr. Tapan Basu of the University of Alberta and by Dr. Gerry Preedy, Edmonton's Medical Officer of Health for Capital Health.

The results are "statistically highly significant," said Basu, a professor in the U of A Department of Agriculture, Food and Nutritional Science.

The number of upper-respiratory infections in each subject was reduced by 25 per cent in the COLD-fX group during the four-month treatment period. Even more impressive however, was the finding that recurrent infections were reduced by 56 per cent (10 per cent in the COLD-fX group as opposed to 22.8 per cent in the placebo group, an absolute difference of 12.8 per cent). COLD-fX treatment also had a significant effect in reducing overall symptoms and the duration of infections.

The study involved 323 adults between the ages of 18 and 65 who'd had at least two upper-respiratory infections in the previous year. Participants were given either COLD-fX or a placebo for four months during the winter of 2003/04. Subjects graded the severity and duration



Dr. Tapan Basu's research shows that the ginseng-based herbal remedy COLD-fX is a powerful weapon against the common cold.

of their respiratory-related symptoms on a four-point scale.

Regular use of COLD-fX was shown to be effective not only for the prevention of upper-respiratory infections, but also

for relief of symptoms if an infection did occur. The results were similar to those observed in previous clinical studies on the cold remedy.

"One of biggest challenges in clinical

studies with natural-based compounds is the lack of standardization of the testing material. Most natural health products do not offer batch-to-batch consistency and do not produce consistent clinical results. This trial was unique in that it examined a unique natural extract with the same rigor used for conducting trials of drug candidates in the pharmaceutical industry, a practice that is rarely found in the natural health product business," Basu noted.

"We are interested in the potential positive implications for our residents and the results from clinical trials done to date are encouraging," said Preedy. "For example, in participants taking COLD-fX daily for prevention, recurrent infections were reduced by more than half. In addition, there was a 31-per-cent reduction in the severity of their symptoms."

"This is the first publicly known study to be completed under the new regulations established by Health Canada's Natural Health Product Directorate," said Dr. Jacqueline Shan, who studied at the U of A before co-founding U of A spin-off company CV Technologies Inc. and becoming CEO, Chief Scientific Officer and co-discoverer of COLD-fX.

A multi-centre and multi-dosage, double-blind, placebo-controlled clinical trial on COLD-fX involving 720 healthy seniors was launched this month in Canada. This trial is being jointly conducted by Preedy and other Canadian researchers.

COLD-fX is a commercially available natural health product developed and manufactured by CV Technologies. It is the result of more than 10 years of scientific and clinical research by a team of 25 scientists and is the top-selling cold/flu remedy in Canada according to ACNielsen. ■

SHAPE OUR FUTURE



President Samarasekera invites you to share in shaping our future at one of two University of Alberta Town Hall meetings.

November 17

3:00 – 4:30 p.m.
Convocation Hall in
the Old Arts Building

November 23

3:00 – 4:30 p.m.
Maple Leaf Room in
Lister Centre

This is an opportunity for you to respond to the President's draft document on values and vision for the University of Alberta. President Samarasekera would like input from students, faculty and staff on this plan before moving forward. See the draft document, **Dare to Discover** at www.president.ualberta.ca.

Participate and enter to win one of two iPods at each meeting, courtesy of the U of A Bookstore.

PhD probes link between physical activity, lowered breast cancer risk

Kristin Campbell's work has landed her a fellowship at an internationally recognized cancer centre

By Caitlin Crawshaw

Although she hasn't yet finished her PhD, cancer research Kristin Campbell has already snagged a \$55,000 per year fellowship and will soon be continuing her work at the internationally recognized Fred Hutchinson Cancer Research Center in Seattle.

The two-year fellowship, offered by the Canadian Institutes for Health Research, will support Campbell when she begins as a postdoctoral fellow at the centre's Cancer Prevention Program in early 2006. She's currently completing her PhD at the University of Alberta Faculty of Physical Education and Recreation.

"The fellowship is an opportunity to learn how very large studies are done that you read about in medical journals. It's a fantastic research facility," said Campbell.

"The Fred Hutchinson Cancer Center in general is a world-renowned kind of place, and the person I'm working with is also world-renowned in the area. So it will be a really great opportunity to work with some of the big names."

Campbell's work is ultimately geared to developing better ways to prevent breast cancer, which is estimated to affect one in nine Canadian women in their lifetimes. Currently, she is leading one of the first studies to explore the relationship between

increased physical fitness and changes in estrogen processing in young women, a hormone that has been linked to breast cancer.

"Basically, there's evidence to show that physical activity does lower your risk of breast cancer, and we're trying to figure out why that is. There are a few potential options, and one is that how women metabolize their estrogen, or how their body processes estrogen, may change due to physical activity," said Campbell.

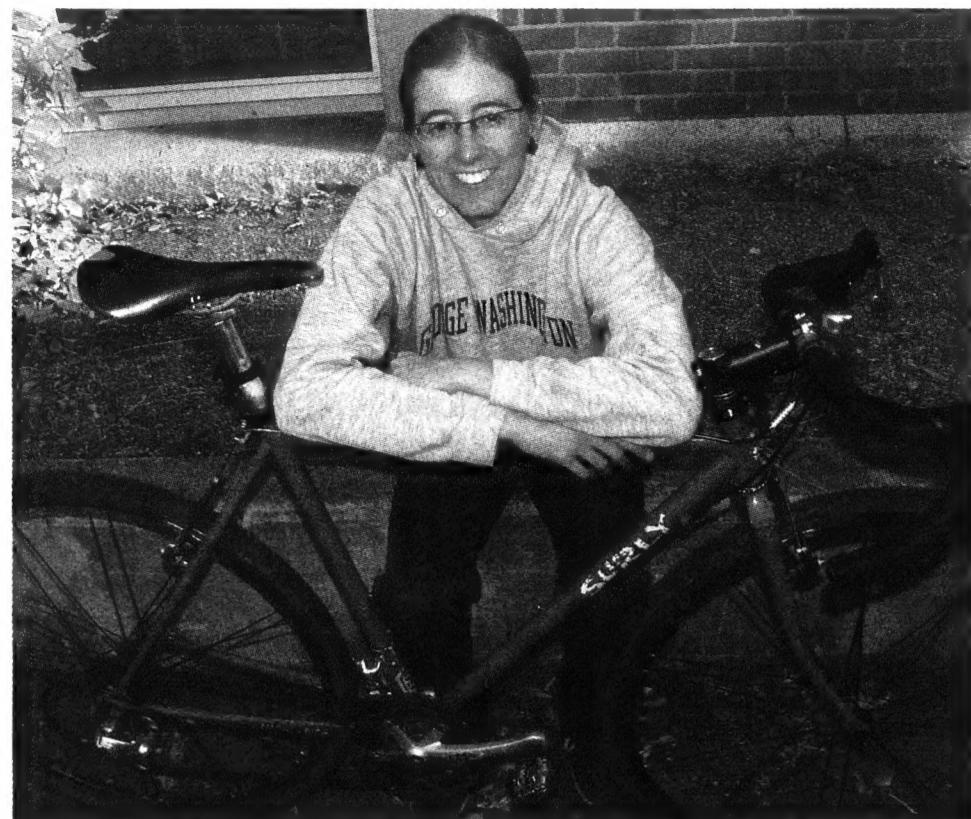
"And I'm seeing if that's actually true, because people suggest it, but it hasn't really been shown whether it does or doesn't. So, we took a group of 34 women and we exercised one group like crazy, and the other group just maintained their usual lifestyle and we compared them at the end."

Campbell is now analyzing the data collected from the study, which involved a 12-week exercise for the women in the experimental group, and no change in physical activity in the control group.

"The whole idea was to make sure that at the end the experimental group was fitter," said Campbell.

Campbell, who originally trained as a physiotherapist, is a long-time athlete.

"I've always been active, my whole life I was always an athlete and played sports in high school and university. Now I race road bikes, so that's my main thing. Like Lance Armstrong, but significantly slower,"



Caitlin Crawshaw

A believer in physical activity, Kristin Campbell cycles to maintain her own health.

she jokes.

The exercise plan she developed for the women in the study, she notes, was not unlike her own regime.

"When they're cursing me for the intervals they have to do, at least I've done them before and I know what they feel like." ■

Executive MBA program earns high ranking

London newspaper places U of A/U of C program among the world's best

By Monica Wegner

For the second consecutive year, the *Financial Times* (London) has ranked the Alberta/Haskayne Executive MBA (EMBA) program among the top 75 in the world.

In the category that measures graduates' career progress since taking the program, Alberta/Haskayne finished first among Canadian business schools and 21st worldwide.

The Alberta/Haskayne EMBA, jointly offered by the University of Calgary and the University of Alberta, achieved an overall ranking of 65 on the list of the top 75 programs. The program ranked third overall among Canadian business schools.

The career progress ranking rings true for EMBA alumna Deb Gordon, Chief Operating Officer of the University of Alberta Hospital and Stollery Children's Hospital. She has been promoted three times since graduating in 2000, and is now responsible for a staff of more than 5,000 and an operating budget of \$385 million.

"I've been fortunate to have been given the opportunity to practice the skills acquired through my EMBA in roles of increased responsibility," said Gordon. "The relationships I developed while completing my EMBA with leaders from Alberta's business community and government sectors have also proved invaluable. At any point in time, I can pick up the phone and bounce ideas off them."

"Our unique co-operation between the province's two top business schools allows us to place Alberta as a leader in Canada in executive education, and to be internationally recognized as a destination for a world-class MBA education," said Dr.



Creative Services

School of Business Dean Dr. Mike Percy.

Michael Percy, Dean of the University of Alberta School of Business.

"The rankings recognize the outstanding quality of the Alberta/Haskayne experience," added Dr. Vernon Jones, academic

director of the program and vice dean of the Haskayne School of Business. "Our graduates' excellent career track records show that employers also recognize the value of the program." ■

Express News

U of A news every weekday...

on the Web... www.ualberta.ca/ExpressNews/



The University of Alberta maintains a database of all alumni. This database is used to send you news about the U of A, including *Folio* and *New Trail*, invitations to special events and requests for support. On Sept. 1, 1999, post-secondary institutions were required to comply with the Freedom of Information and Protection of Privacy legislation of the province of Alberta. In accordance with this legislation, please respond to one of the following options:

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No response means the University of Alberta assumes an individual wishes to remain on the mailing list.

The next pandemic?

Scientists and government bodies are gearing up for what could be the next influenza pandemic: Avian Flu

By Caitlin Crawshaw

While stories of natural disasters like December's tsunami, Hurricane Katrina and the South Asian earthquake have plastered the front pages of newspapers in 2005, Canada has experienced a relative calm.

But as fortunate as we've been, it's becoming clearer that Canadians are not impervious to the world's tribulations. Over the last few months scientific communities worldwide have grown increasingly concerned about a strain of influenza in ducks and other birds. So far, it has affected only a handful of humans globally, most of whom worked closely with birds. Of the humans who've fallen ill, almost half have succumbed to the severe strain of influenza. Dubbed "avian flu" by the media but known by scientists as H5N1, the strain is highly infectious and resembles the devastating Spanish flu of 1918. Globally, an estimated 20 million people, twice the number killed during the First World War, were killed by the Spanish flu.

For these reasons, and because the world has been free of influenza pandemics for decades, medical health professionals fear avian flu could be the world's next pandemic, if it begins to move through human populations.

"If you look at the history of influenza, it does result in pandemics three or four times a century. And that is just the nature of the changeability and ability of influenza to cause disease in humans. We would expect pandemic influenza, we just don't know when," said Dr. Marcia Johnson, Capital Health Deputy Medical Officer and a U of A clinical professor.

Dr. Katharine Magor, an immunologist with the U of A Department of Biology, agrees that a flu pandemic of some kind is inevitable.

"It's definitely 'when' and not 'if.' There have been flu pandemics every 70 or 80 years over the last who knows how long. And we're due for another one."

THE SCIENCE BEHIND AVIAN INFLUENZA

All flu strains begin in ducks, says Magor. It isn't known why, but the unusual immune responses of ducks could make them carriers of influenza, particularly avian influenza.

Before avian flu became a worldwide concern, Magor began investigating the genetic causes for the peculiarities of ducks' immune systems, and has recently started collaborating with Dr. Robert Webster from St. Jude Children's Research Hospital in Memphis, Tennessee, to test a vaccine for ducks.

Avian flu, she says, somewhat resembles the strains of influenza that frequently move through human populations, but H5N1 has not yet been seen as a human flu.

"What makes it an avian flu and not a human flu is that it binds to a different receptor in ducks than it does in humans, and so it's really hard for an avian virus to become a human virus. It takes some mutations and once it's able to bind to a human receptor, it's able to go from human to human," she said.

The likelihood of avian flu mutating in such a way is hard to predict, she said. Each time a virus replicates, it makes a few mistakes or mutations, Magor said. But a certain, unknown combination of genetic mutations is required for avian flu to become a human flu.

"There's a number of mutations possible, and whether it comes up with the right



combination, it's probably like a lottery."

But the odds of the virus 'winning' this lottery are tricky to predict. "What you hear in the news is that a flu virus is inevitable, that the flu virus will jump into humans and spread around the world again, but I would say that we can't guarantee that it'll be this one."

"This one is especially dangerous because of how prevalent it is in animals, and how lethal it is in animals. And it makes it very scary that it could jump, but there's no guarantee it will. A year from now, we could be saying 'well, we were wrong about that.'"

PREPARING FOR THE WORST

Johnson explains that the Capital Health region, Alberta Health and Wellness, and Health Canada are co-ordinating their efforts to prepare Alberta for a pandemic, and in fact, for the worst possible pandemic.

There are many uncertainties surrounding a pandemic, but it is assumed that an Avian influenza pandemic will happen eventually, and will most likely start in Asia. It's also anticipated that it'll take one to five months until a full-scale pandemic occurs, and many countries in the world experience simultaneous outbreaks. In a worst-case scenario, up to 50 per cent of the Canadian population could be ill, not necessarily all at once, but over several waves of infection. In Alberta, this would mean that 0.5 to 1.3 million people would fall ill. If this happens, it is assumed there will be shortages of vaccines, drugs and hospital beds for the ill.

"We anticipate that (an influenza pandemic) will cause a lot of illness and death in Canada," said Johnson. "With emergency preparedness, you plan for the worst and hope for the best."

Right now, the federal and provincial governments are stockpiling anti-viral drugs like Tamiflu. While not a vaccine, such drugs can help the ill fight the flu, as well as act as a preventative measure. Right now, the province has a commitment of 2.6 million doses of anti-virals. "And there is some discussions that this will be increased

further," Johnson added, noting that health care workers and the ill will be prioritized.

According to Dr. Karen Grimsrud, deputy provincial health officer for Alberta Health and Wellness, anti-virals like Tamiflu will be of limited value.

"The really important message we need to get out about anti-virals is that they're not a panacea. They're meant to be a stop-gap measure during the first wave, before we have a vaccine."

A vaccine will not be available until the second wave of the pandemic, she added, because it will take time to isolate the strain, create a vaccine, and then manufacture and distribute it. "These anti-viral medications will be a stop-gap measure in the first wave to provide treatment to those who are seriously ill, or as preventative treatment to those in health services and essential services work. Tamiflu will not stop the pandemic," said Grimsrud, who is part of provincial and national efforts to plan for a flu pandemic.

Grimsrud added that it will also be difficult to predict who will be most affected by the illness until the pandemic begins, and that it might not necessarily be the elderly and very young who are most at risk.

"Historic records show that it's often young adults between 15 and 30 who are most susceptible, certainly with the Spanish flu it was that way. So, it's not the groups we'd traditionally think would be at risk for complications of the flu."

Ultimately, a pandemic is not preventable, Grimsrud emphasized. "We can't close our borders and hope we don't get sick here." But by planning for a public health emergency, the spread of the illness can be slowed, allowing time for a vaccine to be created. Good planning can also ensure proper care for those who fall ill, and decrease the number of people who succumb to the illness.

Proactive efforts are also being taken at the U of A to protect the wellbeing of the university campus in the event of a pandemic.

"We're always concerned about any potential threat to our community, so we're putting together an interdisciplinary team

to take care of this," said Vice-President (Finance and Administration) Dr. Phyllis Clark.

"We are bringing together a group of administrators and faculty members from across the university to be sure we're addressing the broadest possible range of issues that might impact students, staff, traveling professors, international people, accreditation, the community – we'll be looking at the full spectrum of issues."

EVERYDAY PRECAUTIONS

While a pandemic isn't preventable, there are things people can do to protect themselves, say Grimsrud and Johnson.

Basic procedures like hand-washing, disposing of tissues properly, and covering one's mouth and nose during a sneeze or cough can help contain any virus. Johnson notes also that maintaining one's health through proper nutrition, rest and exercise can make a difference.

"With many of the pathogens that make us sick, our body gets over them on its own, and it's a robust and healthy immune system that gets us through it," she said.

"We would also suggest that people think about what they'd do with their family if an emergency did occur. Whether it's a blizzard that cuts out electricity for a few days, or an explosion that cuts off the water supply for a couple of days, or influenza that makes it difficult for normal services to carry on – that's what we call personal emergency preparedness."

This includes stockpiling food, a few weeks worth of bottle water, food and flashlights, in case essential services are lost.

Grimsrud notes that, as during a normal flu season, it's best to avoid visiting sick people, and important to stay home when you first come down with the flu. Having a good supply of fluids and a thermometer at hand can also make things easier in the event you fall ill.

"These are really basic things, but the kinds of things that'll make a big difference when it comes to an average flu season, but also during pandemic." ■

Climate change affecting Arctic lakes

University scientists discover troubling changes in Baffin Island lakes

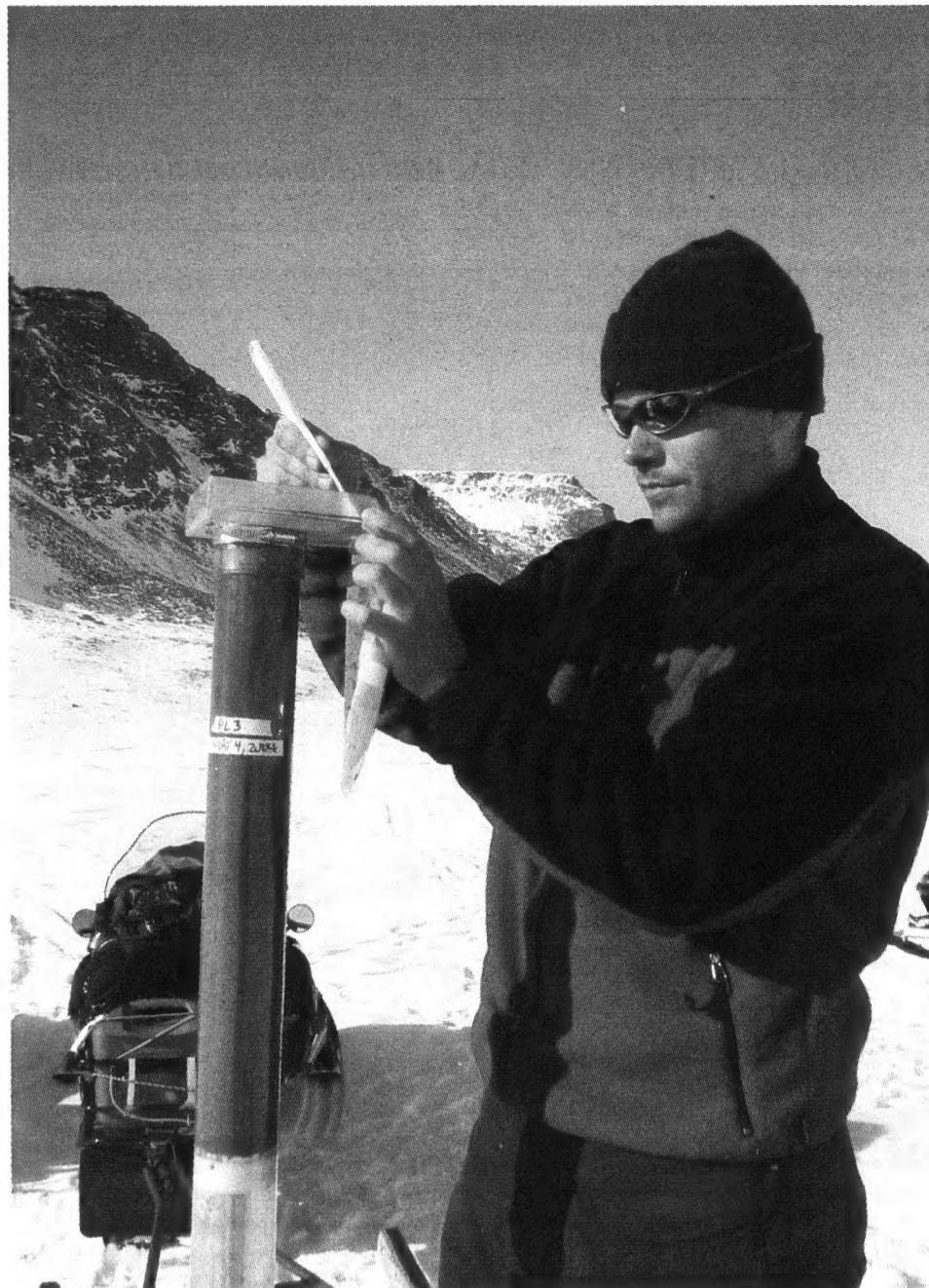
By Phoebe Dey

Climate warming brought on in part by human activities is producing major ecological changes in remote Arctic lakes at an alarming rate, according to new University of Alberta research – the first study to show a whole lake biological response to warming in these waters. Even in the most remote, pristine parts of the Earth, far from the direct influence of human activities, changes are occurring in entire ecosystems, says Dr. Neal Michelutti, a post-doctoral fellow in the University of Alberta's Faculty of Science.

"We study these lakes as models of global change," said Michelutti, whose research is published in the current issue of *Geophysical Research Letters*. "If you think of these lakes as sentinels of change, they are telling us that recent warming, attributable in part to human activities, has already begun and the result is a dramatic change in the way that entire ecosystems function."

Recent trends in ocean production show increases attributable to climate warming, most notably on coastal and cold-water regions. Yet, it remains to be determined whether similar trends exist in fresh-water ecosystems. Remote Arctic regions are ideal for examining the effects of climate warming on aquatic production because they are not directly influenced by human activities.

Michelutti and his research team, including his supervisor, Dr. Alexander Wolfe, from the U of A's Department of Earth and Atmospheric Sciences, used an innovative technique developed at the U of A called reflectance spectroscopy. It allowed them to "see" in wave lengths what the human eye can't and to learn about the chemical composition of the sediment in six lakes on Baffin Island. In this case, they found major increases in the concentration of chlorophyll a—a good indicator of overall ecosystem production.



Dr. Neal Michelutti says increased aquatic production due to climate change has been long predicted, but not demonstrated before this study.

"If you think of these lakes as sentinels of change, they are telling us that recent warming, attributable in part to human activities, has already begun and the result is a dramatic change in the way that entire ecosystems function."

— Dr. Neal Michelutti

For example, with increased warming, the lakes have longer growing seasons, increased habitat availability, and greater nutrient inputs from the surrounding environment. All of these factors lead to greater production in the lakes.

What is alarming about these findings is the magnitude and the timing of the changes, says Michelutti. "For the last several thousand years, chlorophyll a concentrations in our study lakes were very low and showed little variability, until approximately 150 years ago when chlorophyll a increased rapidly and reached unprecedented levels. The timing of these changes corresponds to the start of the Industrial Revolution and when humans first started having a major impact on global atmospheric chemistry," said Michelutti.

"Increased aquatic production due to climate warming has been predicted for many years, but until now has never been demonstrated," he said. "So, we were not totally surprised by our findings; however, the rate and magnitude of the changes that we recorded are definitely alarming, especially when taken in the context of the last several thousand years of variation."

These observations constitute yet another dimension of the widespread regime shifts observed in circumpolar lake ecosystems, said Michelutti.

This work was supported by the Natural Sciences and Engineering Research Council of Canada. ■

Researchers discover cause of speech defect

Genetic abnormality in Alberta boy sheds light on language development

By Geoff McMaster

Scientists are now one step closer to understanding the genetic link to language impairment, thanks to a key discovery by a team of researchers including a University of Alberta medical geneticist.

Dr. Martin Somerville and colleagues from the University of Toronto and elsewhere around the world have found a specific genetic abnormality in a nine-year-old boy from northern Alberta with learning difficulties and speech problems. The researchers discovered the boy carries additional copies of some 27 genes on chromosome seven, which determines language development.

"It's an odd situation, because it's a discovery of something we knew was out there but just hadn't found," said Somerville, director of the Molecular Diagnostic Laboratory at the Stollery Children's Hospital. He said the boy's condition is the reverse of a known condition called Williams-Beuren syndrome (WBS), in which the same genes are deleted. Patients with WBS, while exhibiting mild mental retardation and difficulty with spatial skills, demonstrate a strong ability in expressive language.

"In (the nine-year-old boy's) case, he's got extra copies of these same genes and that seems to actually impair his language," said Somerville. "It's sort of odd, because it seems that having too many of these is what is causing the problems."

The boy can understand what is said to him at the level of a seven-year-old but his expressive language ability is at the level of a two-and-a-half-year-old. He is unable

to form complete words but shows normal spatial ability.

"For example, if asked to tell us what animal has long ears and eats carrots, he could only pronounce the r in the word rabbit but was able to draw the letter on the blackboard and add features such as whiskers," said Dr. Lucy Osborne of the University of Toronto, lead author on the study.

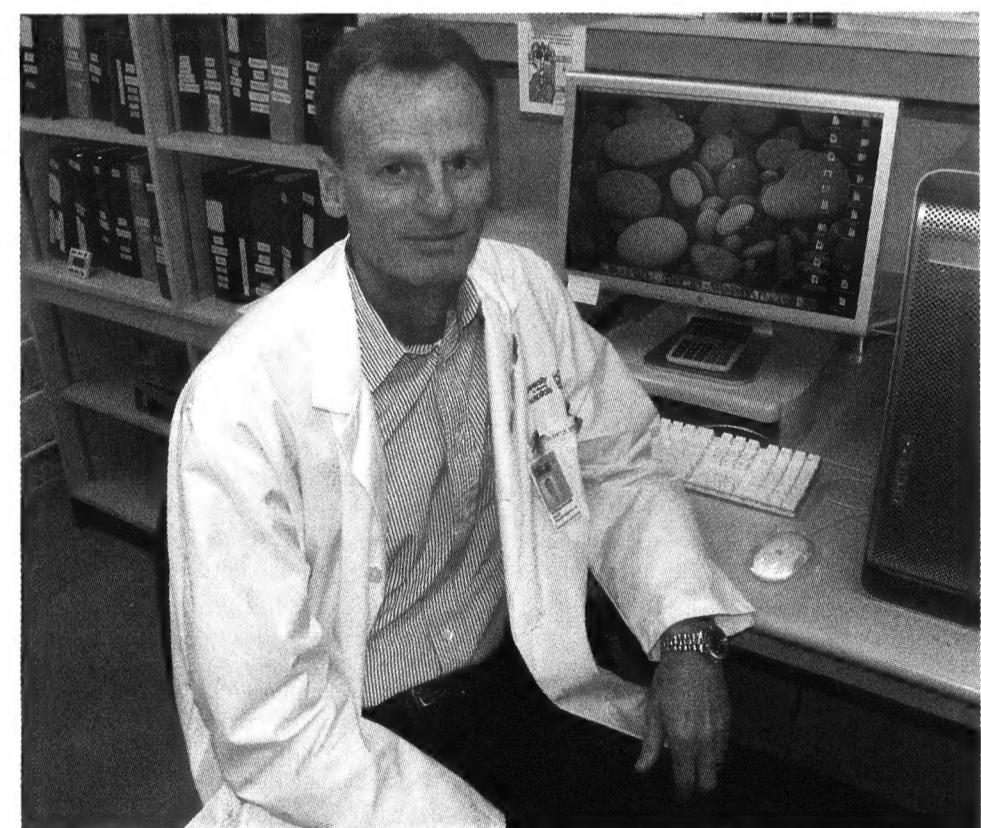
Somerville explained that during the development of a fertilized egg, chromosomes share information between parents' DNA, usually in a balanced way. "But sometimes that gets misaligned, and that's how the deletion happens in Williams-Beuren syndrome. Every time that deletion happens, the DNA that's removed gets added to the other chromosome...that's how we knew it was out there."

In addition to adding more pieces to a complicated puzzle, Somerville said the discovery has promising implications for treatment in the future.

"In the short term it's helping us understand a little bit more about language development," he said. "But realistically in the long term, it gives us some pretty good targets for intervention, especially in children who have this genetic change."

He added it may one day be possible to "turn down the volume on those particular genes," he said, cautioning that it remains "science fiction at this point." The condition is estimated to affect about half a million people worldwide.

The study was published in the Oct. 20 issue of the *New England Journal of Medicine*.



Dr. Martin Somerville co-authored a paper on the genetic discovery in the *New England Journal of Medicine* last month.

Medicine and included authors from the Universities of Toronto and Alberta (Dr. Stephen Bamforth and Dr. Margaret Lilley, in addition to Somerville), the University of Louisville, the Universitat Pompeu Fabra in Barcelona and the Nevada School of Medicine. It was supported by grant money from the Canadian Institutes

of Health Research and the Sick Kids Foundation, the Spanish ministries of health, science and technology, Genome Canada/Ontario Genomics Institute, the National Institute of Neurological Disorders and Stroke and the National Institute of Child Health and Human Development. ■

President will bring voice of universities to federal advisory council

Dr. Indira Samarasekera has been recently appointed to the Advisory Council on Science and Technology

By Caitlin Crawshaw

University of Alberta President Dr. Indira Samarasekera says she plans to emphasize the importance of Canadian universities in her new role on the Advisory Council on Science and Technology (ACST).

Samarasekera was recently invited by Prime Minister Paul Martin to sit on the federal council, and is pleased to be making a contribution to the group. Formed in 1996, the council reviews Canada's performance in research and innovation and works to advise the government on Canada's transition to a knowledge-based economy. The council also looks for strategies for government, industry and academia to work together to commercialize research and new technologies.

In Samarasekera's view, universities are at the heart of technological and scientific development.

"I don't think there's another institution in society today that's more important to a country's future than universities are," she said.

"I will bring to the table the importance of universities, the central role they play in a country's future, primarily because universities are obviously central to the

business of educating the generation that's going to make significant contributions for the next 20 years. But importantly, universities are also engaged in the frontiers of discovery and new knowledge, which translates into social, cultural and economic benefits."

Samarasekera added that she plans to contribute her thoughts on the kinds of investments needed in Canadian universities, as well as strategies to ensure Canada's universities are world leaders, and that Canadian students get the best education and can make creative contributions to the world around them upon graduation.

In 2005, the world is becoming an increasingly technologically sophisticated and complex place, she explained. "I see this panel as one that advises the Prime Minister on key strategies that the country might wish to consider, in the area of science and technology to help Canada be competitive in this very, very changing world."

While her experiences as U of A president will benefit her work for the council, Samarasekera believes that the council will also inform her presidency.

"I think it will give me perspective on the challenges facing Canada, and it will help me understand how the University of Alberta can make a difference."

— Dr. Indira Samarasekera



President Indira Samarasekera

Richard Siemens

"It positions Alberta extremely well as contributing to thinking around how Canada moves ahead, so I consider it a great honour," Samarasekera said ■

Biography probes tragic 'lives' of elusive poet

Prof hopes to divert interest from poet's untimely death to her work itself

By Geoff McMaster

Mention Pat Lowther's name to those who know poetry and what first jumps to mind is perhaps the most sensational murder case in Canadian literary history. So sensational, in fact, that it often clouds any fair, comprehensive assessment of the poet's work.

In the 30 years since Lowther's death, precious little in the way of serious criticism has been written about her poetry. However English professor Dr. Christine Wiesenthal hopes that her new critical biography, *The Half-Lives of Pat Lowther* (U of T Press), will stimulate the right kind of interest in this elusive, yet fascinating figure of West Coast literature.

The story of Lowther's murder in 1975 is, of course, too enticing to ignore. At the age of 40, and on the brink of what Robert Fulford called "whatever fame and fortune Canadian poetry has to offer," she was bludgeoned to death with a hammer by her disturbed and abusive husband. He then dumped her body in Furry Creek, just north of Vancouver, B.C.

In the ensuing trial, Lowther's skull (with an obvious nod by the prosecutor to Shakespeare's Hamlet), and the hammer that crushed it were introduced as evidence, along with her poetry and that of her husband and her lover. In many ways the trial of Roy Lowther came to be as much about literary interpretation as it was about facts and forensics. The *Vancouver Sun* described the proceedings under the heading "Verses and Verdicts."

And so, writes Wiesenthal, "to Pat Lowther goes the dubious, if not fatal, distinction of having accrued the most sensational tragic of contemporary literary reputations. In a mainstream culture generally untroubled by the existence of poets, good, great, indifferent, or bad, the memory of Pat Lowther troubles, and allures."

The rise of Lowther's poetic voice is nothing short of astounding. Born to a working-class family during the Great Depression, she dropped out of high school at 16, was married and pregnant by 18, and divorced from her first husband by her



Deceased poet Pat Lowther (above); Dr Christine Wiesenthal (right)

"Her own work was remarkable... She was well ahead of her time in terms of her interest in science and technology, the environment, and how she incorporated those into her poetics."

— Dr. Christine Wiesenthal



mid-twenties. In her struggle to get by as a single mother in the early '60s, she took on "mind numbing, ill-paying clerical jobs." Becoming a noteworthy poet was by no means a given.

And yet in the very month of her death, a collection of Lowther's poetry, entitled *A Stone Diary*, was accepted for publication by Oxford University Press. She was also busy organizing an annual meeting of the League of Canadian Poets as its chair,

and had just accepted her first teaching job in the creative writing department at the University of British Columbia.

In the years since then, says Wiesenthal, evaluations of Lowther's work have been dominated by a kind of "polite dissent" or "quiet skepticism... She has been embraced as feminist or socialist hero – a political martyr, and so people will say she's been a bit pumped up."

"One of the things I ask is, can you

even remember Pat Lowther in any other way aside from being a victim? ... There is a lot of detail and material that has been forgotten, just because of the overwhelming unforgettable fact of her murder."

Even when Lowther's posthumous collection of poetry, *Time Capsule*, was published in 1997, readers couldn't help searching for clues and menacing harbingers between the lines. It seemed nothing she wrote could escape the crystal-ball analysis.

"That's precisely why I wanted to pay close attention to her poetic legacy," says Wiesenthal. "Her own work was remarkable... She was well ahead of her time in terms of her interest in science and technology, the environment, and how she incorporated those into her poetics. She was really inquisitive about the world and politics and about fairly far-flung places and issues, so she often did a lot of research and reading."

In fact, Wiesenthal considers Lowther a poet for our own media-saturated age: "She read Marshall McLuhan and really was interested in how experience gets mediated and represented." In a whole range of poems, argues Wiesenthal, Lowther interrogated the role of technology, particularly the media, as "the 'subliminal' extension of human experience."

But one can't resist asking the obvious, if somewhat naive, question: Once the shadow of crime narrative has been suspended from a reading of her career, can Lowther be considered a "great" Canadian poet?

Wiesenthal's response is measured: "Her work is uneven, as is the case with most writers. But she was definitely moving into a really original voice."

What's important, says Wiesenthal, is that this poet is well worth reading for any number of reasons. The *Half-Lives of Pat Lowther* – eight years in the making – sets out to reconstruct a life at once crudely remembered and carelessly forgotten, so that a distinctive poetic voice may finally assume its rightful place in the pantheon of Canadian letters. ■

Mental illness rates high in Alberta, study finds

Province ranks first on depression, second on mania, among Canadian provinces

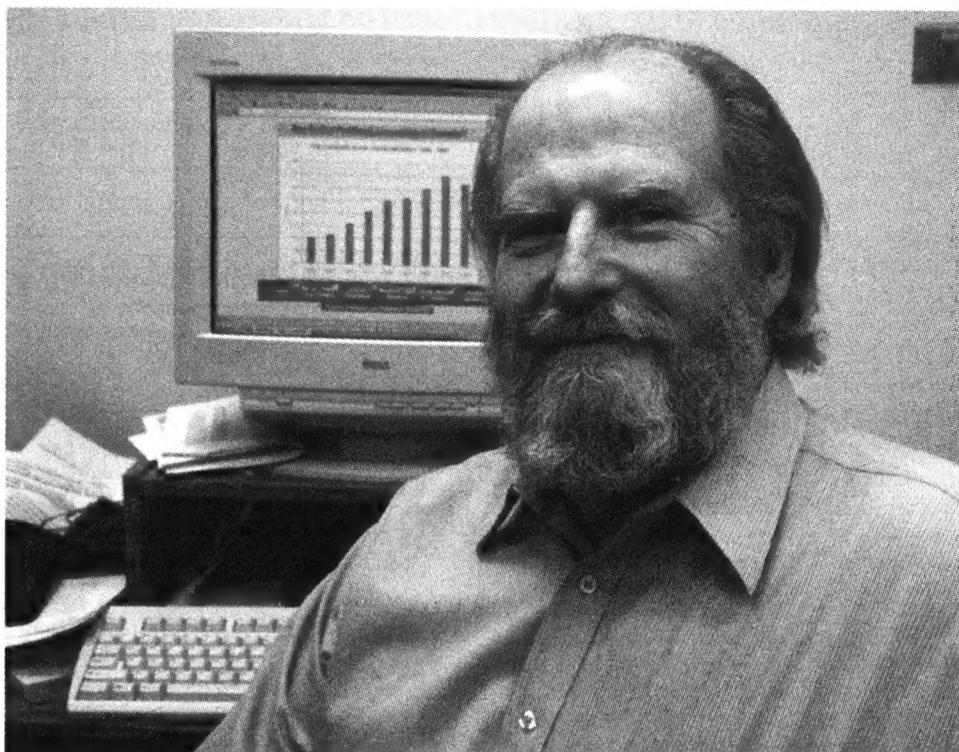
By Phoebe Dey

A new University of Alberta study shows that among provinces Alberta ranks high on mental illness - first on depression, second on mania and third on phobias. Overall, Alberta is tied with B.C. for first place. Leading provinces show levels up to eight times greater than other provinces on certain disorders. The range is even larger for social problems such as suicide, crime, substance abuse and divorce, says Dr. Gus Thompson, a Public Health Sciences professor at the U of A and suicidologist with the Alberta Centre for Injury Control and Research.

The research, published in the *Canadian Journal of Psychiatry*, looked at the rates for selected psychiatric disorders and assessed the association between those disorders and social problems. He found that the already established association between social problems and mental illness within individuals also applies across geographic areas.

"I was surprised by the finding that the variation in mental illness rates was about as large as the variation in social problem behaviour," said Thompson. "Because the ratios are about the same, it makes one wonder about the actual influence of provincial differences in social structure."

Thompson's previous work has found



Dr. Gus Thompson's recent study examined rates of psychiatric disorders and their association with social problems.

that provinces or territories that rank high on one social problem tend to rank highly on others and that such problems could be described by a single index - the SPI (Social Problem Index). The eight social problems

- homicide, attempted murder, assault, sexual assault, robbery, divorce, suicide and alcoholism - increase from east to west. Thompson wanted to see whether psychiatric disorders show variations across geo-

graphic areas that are as dramatic as those found for social problems.

The data, taken from the Canadian Community Health Survey, showed that western Canada continues to have higher social problems and crime than other Canadian provinces. No province east of Manitoba made the top four. This pattern has been around for several decades and correlates with the pattern of settlement, but no one really knows why the rates get higher as we go west, said Thompson.

In terms of psychiatric disorders, the results were a bit more varied. Alberta is the highest for depression, followed by Quebec, B.C. and Manitoba. Nova Scotia ranks the highest in phobias, followed by a tie for British Columbia and Saskatchewan and Alberta in third. British Columbia records the highest percentage in mania, followed by Alberta and Ontario.

"The wide variation of results indicates that the need for treatment services varies dramatically from province to province," said Thompson. "Thus, assignment of resources for treatment services would be off if it was done on a per capita basis," he said.

From a provincial or territorial view, says Thompson, the findings suggest that mental health and social problems need to be given a higher priority in some cases. ■

At the end of the day,
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SUBJECT TO CLASSIFICATION

U of A falcon wintering in South America

Radio tracking device keeps tabs on raptor

By Geoff McMaster

The female peregrine falcon that nests on the Clinical Sciences Building is now sunning herself in Colombia, according to tracking data supplied by the Canadian Wildlife Service (CWS).

According to Geoff Hurly, associate director of operations and energy management, the falcon left Edmonton sometime after Oct. 12. By Oct. 18, she was about 100 km northwest of Houston, Texas, and by Oct. 23, she was somewhere near Tikal, Guatemala. At last check, she was 200 km north of Medellin, Colombia.

"Her speed of migration has been pretty impressive," said Gordon Court, a biologist with Alberta Fish and Wildlife. "She did 2,900 km in four days."

"Right now she's just drifting south looking for a good place to winter, which means mainly a good place where lots of prey are concentrated."

After a scrap with another female last summer, the falcon was fitted with a satellite transmitter while being rehabilitated by U of A falcon researcher Dr. Alastair Franke. Franke, whose own research focuses on peregrines in Rankin Inlet, NWT, suggested to CWS researcher Geoff Holroyd that he might find the tracking data useful, because Holroyd follows the migration pattern of falcons.

One reason for tracking the falcons, said Court, is to find out where they are picking up pesticide residue.

"If we had enough of these birds marked and were able to take tissues from either their bodies or the eggs they lay when they come back in the spring, we could identify parts of South and Central America where they wintered and find out

how dirty they really are," said Court, who works closely with Holroyd and Franke.

Pesticide contamination, particularly from DDT, drove peregrines to the brink of extinction several decades ago. In 1970, there was only one known pair in Alberta. Because DDT use has declined over the past few decades, however, the species has made a strong recovery and have been delisted from endangered to threatened.

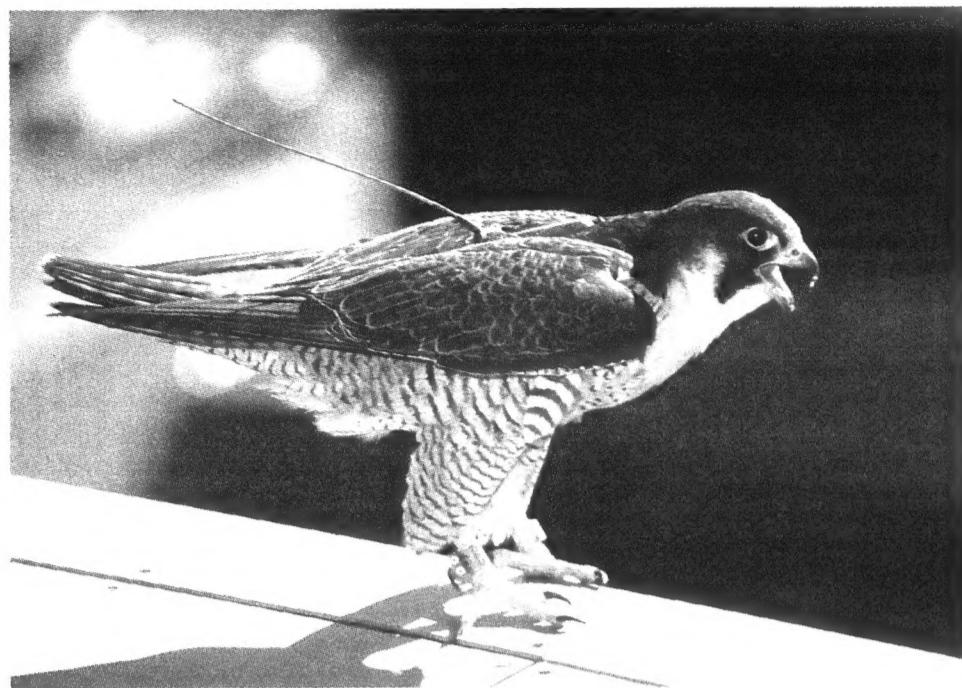
"They will be reassessed next year and may be taken off the threatened list as well if they continue to improve," said Court, adding that there are now about 52 known pairs in the province and five in Edmonton – one nesting on the downtown Telus building, one at Inland Cement in the west end, one on an Imperial Oil flaring stack at 34th St. and Baseline Rd., a new pair on Saskatchewan Drive west of 109 St. and our own pair here on campus.

Despite the recovery, says Court, peregrines are still picking up DDT and other organo-chlorine pollutants when they migrate south.

"One of the birds we had a radio on went to Mazatlan and nested in a very intensive agricultural situation where they were growing tomatoes. She was quite heavily laden with DDT residue."

The U of A falcon will likely return in March or early April, says Court, and there is a good chance she will try to reclaim her Clinical Sciences nest, where the ongoing drama will likely continue.

"She may find the male she was paired with last year has another female, and it gets quite violent. But usually the bird that's been there the year before is successful in retaking the territory," he said.



A female peregrine nesting downtown dons a satellite transmitter like her U of A counterpart.

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Canada

New envelopes speed campus mail

New software struggled to read old addresses

By Richard Cairney

With some 14,000 pieces of mail coming onto the University of Alberta campus every day, sorting the mail can be a time-consuming task – especially when it comes to reading hand-written addresses scrawled in a hurry.

But new mail sorting technology and new campus mail envelopes are making the job easier.

"The volume of mail we handle continues to grow every year and so we are in a situation where we just can't keep adding people to sort the mail," said Martin Craige, director of Supply Management Services.

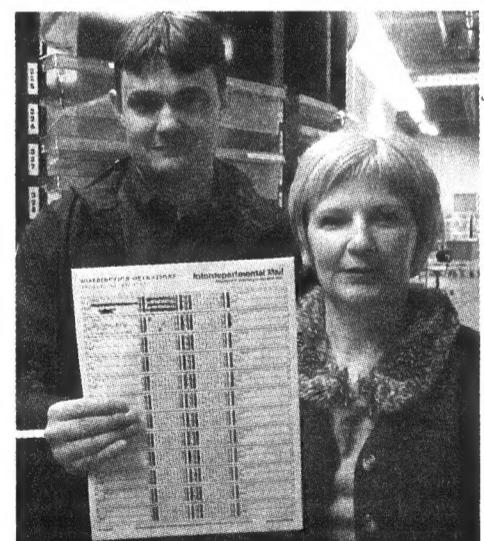
Last year the university purchased one-of-a-kind mail sorting technology designed to fit the Supply Management Services facilities. Reading addresses optically, the device sorts mail into different destination categories for on-campus delivery.

The problem with campus mail was that hand-written addresses were difficult for the new system to read, and much of the interdepartmental mail needed to be sorted by hand.

A newly designed envelope includes mail stop codes printed on one side and 24 destination addresses on the other. By filling in mail stop codes, software used to read addresses is better able to sort mail accurately.

"And even if we need to sort it by hand, it's easier than reading someone's writing," said Jody Brookwell, associate director of Supply Management Services.

Brookwell said are some wrinkles that need to be ironed out. "Someone like Faculty of Extension, who might be sending out 500 envelopes across campus, will



Distribution Manager Phil Webb and Jody Brookwell, associate director of Supply Management Services, with one of the new interdepartmental mail envelopes. SMS handles about 14,000 pieces of mail daily, approximately 2,500 of which are large-sized interdepartmental mail envelopes. About 5,000 of the new envelopes have been distributed so far.

need labels printed up," she said.

And she's hoping that the mail stop codes will also be printed in the campus directory.

"We'd like this information to be available in a number of places," she said.

New envelopes were distributed last week, and the old envelopes are being phased out of use.

"It used to be that we had many more people dedicated to the manual sort," said Brookwell. "This further streamlines things now and the process has become more streamlined." ■

Choral music hits the right notes for geneticist

Moira Glerum's love of music led her to the Winspear Centre, Carnegie Hall

By Caitlin Crawshaw

By day, Moira Glerum runs a successful University of Alberta genetics lab, probing the mysteries behind a subset of mitochondrial diseases. But in her off hours, the scientist exchanges her white lab coat for a purple, satin, chorister's blazer.

Glerum belongs to the Richard Eaton Singers (RES), a 150-member chorus led by the award-winning U of A choral conducting professor, Dr. Leonard Ratzlaff. But unlike many of her choir peers, who began singing in childhood, Glerum came to choral music in her adult life.

For decades she'd been a pianist, balancing daily two-hour practice sessions with the rigorous demands of academic life. But years into her graduate studies, she made the difficult decision to prioritize science, due to the growing demands of her research work.

"I wanted to keep going. I love music, and I got to a level where I could play a lot of things that I wanted to play, but I couldn't make the time commitment anymore," she said.

Music had always been a critical part of her life, and Glerum refused to give it up. So, mustering all the courage she had, Glerum auditioned for the Hart House Chorus at the University of Toronto, where she was studying at the time. Much to her amazement, she got in. "And that's when it started," she explains.

Since then, Glerum has sung in several choirs in North America. When her research endeavors brought her to New York years later, she sang with the Barnard-Columbia Chorus and the New York Choral Society. In fact, in February 1997, she even performed in Carnegie Hall.

"Standing on that stage, you really feel like the people in the seats are almost coming down on you. It's not like standing on the stage or in the choir loft of the Winspear,



While Moira Glerum's genetics lab keeps her busy, she always makes time for music.

where there seems to be a lot of space. In Carnegie Hall there are a lot of levels, so relatively speaking, it felt to me like they were closer to the stage," Glerum said. "It was cool, but it was kind of weird."

Just months later, Glerum moved to Edmonton to take up an academic appointment at the U of A. That summer, she auditioned for Ratzlaff and was accepted to the RES. In a strange twist of fate, she found herself performing Brahms' German Requiem, the same piece she'd

sang at Carnegie Hall, at the opening of Edmonton's Winspear Centre.

"Everyone knows what Carnegie Hall is, but no one knows the Winspear, unless they live here. But I think we have a jewel here, an incredible jewel, in the Winspear," she said, adding that the acoustics are probably better in the Winspear Centre than Carnegie Hall.

While running a lively research lab at the U of A keeps Glerum pretty busy, choral music is a fulfilling and necessary part

of life, she says.

"If I have a CD on of say, the Brahms' requiem say, can't help but sing along with it—it's part of me."

"And singing with a choir means you're not by yourself, you're with other people. And the ability to make music together—I can't imagine my life without it. And that's how you keep going; when you have something that's so integral that you can't imagine your life without it," she said.

But her scientific and musical enterprises aren't as far removed from one another as you might assume. This year, for instance, Glerum was asked to sit on the jury committee for students in choral conducting in the U of A Department of Music. "My professional capacity as a faculty member and my training in music allows me to do that," she said.

In fact, there are parallels between Glerum's love of music and science. She describes the music of Bach, one of her favorite choral composers, as very organized, and logical. "It seems to sing itself—which it really can't do—but sometimes it feels like that's the way it goes.

"Maybe it's the logic and there seems to be an inherent structure in the music of Bach. And that's a little bit reminiscent of doing science, because experiments that you design are designed on the basis of a structure. You have a set of facts, and those facts get put together to build some kind of a model, and your experiments are designed to test that model further," she said.

The Richard Eaton Singers will perform as guests of the Edmonton Symphony Orchestra on November 11 and 12, 2005, at the Winspear Centre. They will perform Brahms' *Ein Deutsches Requiem* with conductor Yannick Nézet-Séguin, soprano Karina Gauvin and baritone Nathan Berg. ■

Unprecedented research shows economic value of rainforest

Cost-benefit analysis of Ugandan rainforest provides economic justification for diversity

By Phoebe Dey

The economic benefits of protecting a rainforest reserve outweigh the costs of preserving it, says University of Alberta research—the first of its kind to have conducted a cost-benefit analysis on the conservation of species diversity.

"The traditional moral and aesthetic arguments have been made about why we should conserve the biodiversity in rainforests, but little has been done that looks at whether it makes pure economic sense to do so," said Dr. Robin Naidoo, who did his PhD at the U of A in biological sciences and rural economy. "We provide some good evidence from a strict economic side, that yes, it does."

Naidoo, now with the World Wildlife Fund, and Dr. Wiktor Adamowicz, from the U of A's Department of Rural Economy, examined the costs and benefits of avian biodiversity at the Mabira Forest Reserve in southern Uganda. They wanted to see if it was economically viable to protect this forest in an area where an impoverished community is heavily dependent on the region's resources. Pressure on the forest is intense—harvesting timber, making charcoal, collecting fuel wood and agricultural development compete with rainforest conservation.

Since 1996, an ecotourism centre has been established at the forest and a growing number of international tour-



Dr. Wiktor Adamowicz (shown here in the Faculty of Agriculture and Forestry atrium) says the study he coauthored shows the economic value of protecting rainforest diversity.

ists continue to visit the reserve. Naidoo and Adamowicz found that the higher the number of bird species that could be seen, the more tourists would be willing to pay. And by increasing entrance fees, the reserve could preserve 90 per cent—or 131 species—of the forest's birds.

"This is one of the few studies where people have put a tangible number on what rainforest biodiversity is worth to them," said Naidoo, adding that the benefits should be distributed to the local people bearing the conservation cost. "And although this is about a Uganda forest, it has international implications."

The research team also learned that based on current land values, it would not be economically justifiable to convert agricultural land back into forest. In other words, it is far cheaper to preserve these tropical forests now than to rehabilitate spoiled ecosystems in the future.

"There have been lots of examples of dollar figures associated with rainforests but this looked specifically at whether it is economically worth it to preserve diversity or would they be better off selling the land privately," said Adamowicz. "By providing a cost-benefit analysis, this study has just closed the loop."

The research is published in the current issue of the *Proceedings of the National Academy of Sciences*. ■

Small equipment funds a big boost to researchers

Alberta Innovation and Science grants program will benefit U of A researchers like Dr. Hicham Fenniri

By Beverly Betkowski

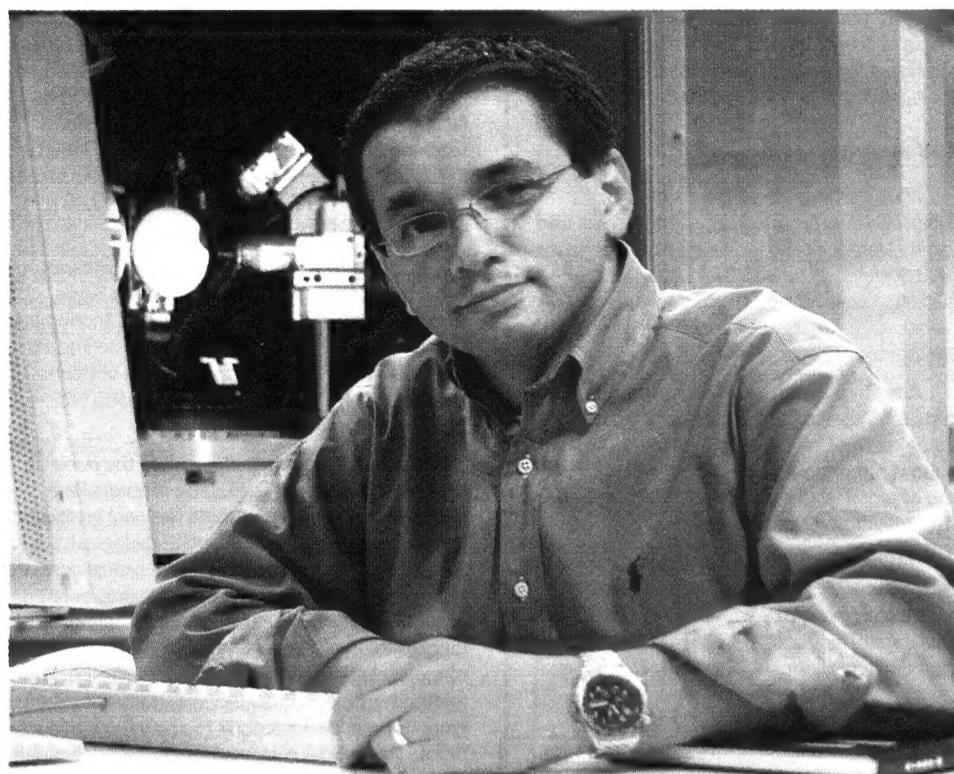
Eight emerging researchers from the University of Alberta are among 17 throughout the province receiving more than \$2 million in funding to help establish their labs.

The Small Equipment Grants Program, administered through Alberta Innovation and Science, helps researchers set up their labs by investing in key equipment purchases. The grants, announced today, provide up to 30 per cent of the total project costs.

The funding will aid a variety of U of A projects that range from exploring reproductive technologies for better pork production, to furthering the new science of nanotechnology.

Chemistry professor and group leader at the U of A-based National Institute for Nanotechnology (NINT) Dr. Hicham Fenniri was awarded \$299,056 to help pay for a state-of-the-art nuclear magnetic resonance spectrometer that will allow his team to study the 3-D structure of molecules in nanoscale science, engineering and medicine. "Without this piece of equipment, my research efforts at NINT in the life sciences area would be essentially impossible," Fenniri said.

A \$100,000 grant awarded to biological sciences professor Dr. David Coltman will purchase an ecological genomics lab, replacing antiquated equipment. "This will enable my research group to apply DNA profiling and genomics to new research questions in wildlife biology and management," he said.



Courtesy of the National Research Council

Dr. Hicham Fenniri says the equipment funding will help pay for a state-of-the-art nuclear magnetic resonance spectrometer that will greatly benefit his research team.

"For example, we will be able to quickly develop a 'roadmap' of how wild deer populations are structured in Alberta, to better predict the likely spread of chronic wasting

disease across Western Canada."

Dr. Erin Bayne of the Department of Biological Sciences will use a \$58,331 grant to further develop wildlife monitoring

technology. "The ability to study implications of animal behaviour to answer ecological questions is limited by an inability to track animals all the time. We have been able to design digital monitoring systems that can withstand the rigours of field work in extremely remote locations by integrating advances in solar and wind power technology," Bayne said.

Dr. Michael Dyck of the Department of Agriculture, Food and Nutritional Science was awarded \$110,000 for equipment that will optimize conditions for analyzing, manipulating and freezing porcine reproductive tissue. Other recipients include chemical and materials engineering researcher Dr. David Mitlin, who was awarded \$270,000 for equipment that will synthesize nanomaterials such as fuel cells. Dr. Stephen Strelkov, a researcher in the U of A Department of Agricultural, Food and Nutritional Science will apply his \$175,000 grant to new infrastructure that will aid in developing improved disease-resistant canola. Dr. Richard Thompson of the Department of Biomedical Engineering received \$36,013 towards research that will improve cardiac imaging and, while Dr. Sunita Vohra was awarded \$90,236 to help create a lab to research pediatric medicines and natural health products.

Research projects at the universities of Calgary and Lethbridge also received grants. ■

National award for U of A instructor

Teacher provides fitness opportunities for kids with disabilities

By Jane Hurly

A University of Alberta teacher is being honoured for her work in bringing physical activity opportunities to children with disabilities.

Karen Robinson, a sessional instructor in the U of A Faculty of Physical Education is receiving the Gerry York Moving to Inclusion Award, recognizing outstanding work carried out in Canadian communities and schools that promotes and advances the inclusion of children and youth with disabilities in physical activity programs.

The award is bestowed by the Active Living Alliance for Canadians with a Disability. Robinson recently completed a master's degree in adapted physical activity at the Faculty of Physical Education and Recreation.

It's an outstanding accomplishment for Robinson, whose development of the Centre for Adapted Group and Individual Exercise (CAGE) at the U of A-based Steadward Centre for Personal and Physical Achievement, is bringing to Alberta sorely-needed physical activity opportunities for children and youths with disabilities. It's an achievement that brings to fruition a long-held goal of Dr. Garry Wheeler, The Steadward Centre's former director, who dreamed of extending CAGE's programming to include children and youth.

"Dr. Wheeler applied for the grant money and fleshed out how this concept might work," Robinson said. "When I started I had the concept, the space and the money." It was Robinson's job to design the space, develop the program and service delivery model, purchase equipment, name the concept, recruit participants, and develop partners and collaborators to sustain the programs. CAGE, which opened its doors in early June, has about 60 children accessing the services, said Robinson, who began working full-time at The Steadward Centre in April this year.

The mission of CAGE, said Robinson,



Caitlin Crawford

Karen Robinson developed the Centre for Adapted Group and Individual Exercise (CAGE) at the Steadward Centre.

"is to provide an opportunity for children and youth to participate in physical activity and fitness programs and to develop skills and knowledge towards health and wellness while asserting their autonomy and independence in a fun, social environment." The programs offered by CAGE supplement the physical education experiences of children and youth with disabilities and increase their participation in other recreation-based programs.

While she's thrilled about winning such

a prestigious award, "I feel really appreciative to our funders and the staff at The Steadward Centre for all of their support and assistance," Robinson said. "I also feel relieved and excited for parents that they now have a place to go to provide their children with opportunities for fitness, skill development and social interaction."

"I am also very pleased that the Active Living Alliance for Canadians with Disabilities will hear all about The Steadward Centre and CAGE and all the

great work that is taking place here. I feel fortunate to have been given the opportunity to put my energy and creativity into this type of project - and winning an award for it is simply a bonus!"

Dr. Gary McPherson, acting director of The Steadward Centre, is proud of Robinson's achievement for both the development of CAGE and for winning the Moving to Inclusion Award. "We're grateful for having Karen on our team and exceptionally proud of this award to recognize her outstanding work in an important and deserving area," he said.

Robinson has been actively involved in sport and recreation for people of all ages and abilities for several years. She was also recently awarded the Alberta Recreation and Parks Association Graduate Scholarship for service in the area of recreation and disability sport. She has worked with an autistic child, as a co-ordinator and instructor for two motor skill development programs and is currently a coach for the Special Olympics. She lectures on adapted physical activity in the U of A Faculty of Physical Education and Recreation. ■

talks & events

Submit talks and events to Lorraine Neumayer by 12 p.m. Thursday one week prior to publication. **Folio Talks and Events** listings do not accept submissions via fax, mail, e-mail or phone. Please enter events you'd like to appear in Folio and on ExpressNews at: <http://www.uofaweb.ualberta.ca/events/submit.cfm>. A more comprehensive list of events is available online at www.events.ualberta.ca.

UNTIL DEC 2005

See the Stars at the Astronomical Observatory

Observatory You are invited to observe stars, planets, galaxies and nebulae at the U of A observatory. We are open every Thursday evening from 8:00 - 9:00 p.m. during the academic year. Admission is free, all are welcome. Please wear warm clothes as observatory is outdoors, on the roof of the Physics Building (take elevator to the 6th floor and take stairs to 7th floor).

SEPT 29 2005 - MAR 16 2006

Conserving Biodiversity in Northern Cities

Leading researchers from around the globe will be speaking about conservation issues within northern cities. The series is free of charge and open to the public. Registration is not required. 4:30 p.m. Engineering Teaching Learning Complex Room 1007.

UNTIL NOV 23 2005

Dr. Steven Aung: retrospective of Medical Spiritual Paintings

Opening Reception on Tuesday, Nov. 15, 6:00-9:00 p.m. Dr. Steven Aung's medical practice is filled with loving kindness, and this is how he heals people. His art is the same - a

healing process for all who look at it as well as for him, as an artist. It keeps him centered, focused on humanity, and in tune with the world around him. This special exhibition is a retrospective of the man and his art. Extension Centre Gallery, 2nd Floor, University Extension Centre, 8303-112 Street.

NOV 4 2005

2005 Distinguished Demographer

Lecture Series: Revolutions, Generations and Family Demography Catherine Krull, Associate Chair Sociology, Queen's University will give the 2005 Distinguished Demographic Lecture Series talk "Revolutions, Generations and Family Demography." 11:00 a.m. Tory 1-103.

Adaptive evolution of promiscuous plasmids Eva Top, Associate Professor, Department of Biological Sciences, University of Idaho, Moscow, Idaho is presenting a seminar on "Adaptive evolution of promiscuous plasmids" 11:00 a.m. in Room M-137 Biological Sciences Building.

University Teaching Services (UTS): Faculty Brown Bag Lunch Sessions The goal of the sessions is to provide opportunities for scholarly exchanges. The informal forum allows instructors from different disciplines to share teaching chal-

lenges, ideas, and experiences within our changing university. Bring your lunch and UTS will provide the coffee/juice. Topic: E-Learning Report 2005. The recommendations of the E-Learning Report 2005: A Foundation for Transformation will be presented during this session. Discussion will focus on the factors that contribute to the need to transform teaching and learning at the University of Alberta. Facilitator: Paul Sorenson, Vice-Provost (Information Technology). Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

Rural Economy and Alberta Agricultural Economics Association Seminar

Kathy Baylis, Assistant Professor, Food and Resource Economics, University of British Columbia. "What's Behind EU Ag-Environmental Programs: Pollution or Politics? Lessons and Trade Implication for Canada." Room 550 General Services Bldg. 3:00 p.m.

Physics Colloquium "Unfolding the Book of Life: Force-Induced Unzipping of Single DNA Hairpins" by Michael Woodside National Institute for Nanotechnology, NRC Dept. of Biological Sciences, Stanford University. The development of high-precision single-molecule force probes has provided a powerful set of tools for studying a wide range of biological questions, from the mechanisms of molecular motors to the dynamics of biopolymer folding transitions. Woodside will discuss recent work using optical tweezers to apply force and unfold single DNA hairpins. Department colloquia are intended to benefit all students and staff. 3:15 p.m. - 4:00 p.m. V128 Physics.

Genetic interactions that regulate Dab1 function and brain development Brian Howell, National Institutes of Health, Bethesda, Maryland is presenting a seminar on "Genetic interactions that regulate Dab1 function and brain development" as part of the Genetics 605 Graduate Student Seminar Series. 3:30 p.m. M-149, Biological Sciences Building.

Managing sport policy agendas: The problem with problems Special presentation by Dr. Michael Sam, lecturer in sport management and sport policy from the University of Otago in New Zealand. Everyone is welcome to attend! Event hosted by Dr. Jay Scherer, Faculty of Physical Education and Recreation. 3:30 p.m. - 4:30 p.m. E-121 Van Vliet Physical Education and Recreation Centre.

Pandas Volleyball Pandas vs. UBC 6:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Ending Violence Against Women: Strategies from the South and the North Horizons of Friendship, APIRG, and the U of A Women's Studies Program present guest speaker Blanca Olivia Velazquez from the Feminist Collective Mercedes Olivera (COFEMO) from Chiapas, Mexico. Blanca Olivia Velazquez has worked for 10 years with women's organizations in Mexico. She is a trained psychologist whose experiences include providing support for women victims of sexual and domestic violence, accompanying and advocating for them within the health and legal systems. Canadian guest speaker to be confirmed. Followed by a screening of the award-winning documentary: Missing Young Woman 2001 (USA/Mexico) 7:00 p.m. - 9:00 p.m. Education Building Rm. 107 (87 Avenue and 113 Street).

Bears Volleyball Bears vs. UBC. 8:15 p.m. Main Gym, Van Vliet Physical Education and Recreation Centre.

Exam Strategies Do you know how to start studying and what to study? Get answers to these questions as well as learn how to study for and take multiple choice, short answer, essay and problem solving exams. This is a great workshop for new students and students who want to gain an advantage for exams. Pre-register at the Academic Support Centre 2-703 Students' Union Bldg. 9:00 a.m. - 12:00 p.m. 2-702 Students' Union Building (SUB).

NOV 5 2005

"Effective Class Presentations" Do you have to make a presentation in one of your courses? Learn how to prepare for and deliver awesome presentations, effectively manage group work, and reduce speaker's anxiety. Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 1:00 p.m. - 3:00 p.m. Room 17, Humanities Centre.

Study Strategies Do you know how to get through all your course work and actually learn something? Discover practical time management, note-taking, reading and memory strategies that will help you study more effectively at university. Bring your study questions and get the answers you are looking for! Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 1:00 p.m. - 4:00 p.m. 2-702 Students' Union Building (SUB).

The Ethics of Immigration Law: Are Controls

on Who Can Live & Work in Canada Justifiable? Dr. Adam Morton, Canadian Research Chair and Professor, Philosophy 2:00 - 3:30 p.m. Stanley A. Milner Library (Basement in the Edmonton Room), 7 Sir Winston Churchill Square.

Bears Volleyball Bears vs. UBC 6:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

The University of Alberta Symphonic Wind Ensemble

The University of Alberta Symphonic Wind Ensemble The University of Alberta Symphonic Wind Ensemble. William Street, Director. Rocky Point Holiday: Nelson. Traumerusik: Wagner. Sinfonietta: Dahl. Dance Suite: Horowitz. Toccata and Fugue in D Minor: JS Bach. Scenes from the Louvre: Dello Joio. Marche Hongroise: Berlioz. Twelve Seconds to the Moon: Smith. 8:00 p.m. Arts Building/Convocation Hall.

Pandas Volleyball Pandas vs. UBC. 8:15 p.m. Main Gym, Van Vliet Physical Education and Recreation Centre.

NOV 7 2005

Campus Security Services 2nd Annual Doughnut Day

Back by popular demand is Campus Security Services Donut Day. Campus Security Services will personally deliver a dozen or more succulent Krispy Kreme doughnuts to you and your office for only \$7.00/dozen. Campus Security members will be taking orders starting Oct. 24 until noon Nov. 4. Watch for further details on preordering by telephone and online. All proceeds to the United Way.

Music at Noon, Convocation Hall Student Recital Series

Music at Noon, Convocation Hall Student Recital Series Music at Noon, Convocation Hall Student Recital Series Featuring students from the Department of Music. 12:00 p.m. Arts Building/Convocation Hall.

Abraham and Isaac: The Religious Suspension of the Ethical (Derrida, Kierkegaard, Leavis and Conrad) This is the third in a series of four lectures by Gary Watson, Professor of English, on the topic "Rethinking Religion and Where We Stand in Relation to It." 3:00 p.m. Humanities Centre L-4.

NOV 8 2005

Mutations in the S4 Voltage Sensor at a Shaker Potassium Channel Recover a Delayed Rectifier Phenotype Tara Klassen, PhD Candidate (Gallin), Department of Biological Sciences, University of Alberta is presenting a seminar on "Mutations in the S4 voltage sensor at a shaker potassium channel recover a delayed rectifier phenotype" at 12:00 p.m. in Room T 1-90, Tory.

University Teaching Services (UTS) The Psychology of How to Write Exams. What do we know about exam writing and performance from a research perspective? Usually students make decisions about their performance on examinations based on three components: knowledge of course material, level of confidence, and the presence or absence of anxiety. Research has identified a number of other explanatory factors that affect performance both directly and indirectly. Discussion of this information may surprise and inform you. Presenter: Karen Kovach, Academic Support Centre. Pre-registration required. 3:30 p.m. - 5:00 p.m. CAB 239.

Ancillary Services University Cookbook Top Tastes of The Favourites From Friends Favourites from Friends launch date is Nov. 8 at the Top Tastes of the Favourites from Friends Event. This is a preview event of the best recipes from the cookbook that Ancillary Services is putting together as one of the United Way projects. It will be held in the Maple Leaf Room at Lister Centre from 11:00 a.m. - 1:00 p.m. on Nov. 8 and will feature, along with other wonderful selections, the CAB Tuck Shop, Cinanamon Buns. The event will be similar to the taste of Edmonton so you can eat big or small. Tickets are \$6, and will be available for advanced purchase from the following locations: HUB Mall Administration, Lister Hall Reception. Our cookbook has also received permission to be advertised as an Alberta Centennial Event, and will be on sale at the event, Greenwoods, the Bookstore, HUB Mall office and at ARAMARK locations.

PHS Grand Rounds Dr. Jeffrey Johnson, Professor, Department of Public Health Sciences. "Alberta's Caring for Diabetes Program - Alberta Diabetes Surveillance System." Room 2-117, Clinical Sciences Building.

NOV 9 2005

Introduction to Grid Technologies (WestGrid Seminar Series) The WestGrid Seminar Series brings to you an Introduction to Grid Technologies. Cameron Kiddle, a Postdoctoral Fellow for the TeleSim Group/Grid Research Centre at the University of Calgary, will host this session. He will discuss existing grid technologies and their benefits as well as basic and advanced grid services. He will also provide demonstrations. To attend



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this session, please RSVP Jon Johansson at jonj@ualberta.ca. 9:30 a.m. - 11:30 a.m. Access Grid Room (315 General Services Building).

Early events in the pathogenesis of Huntington's disease Dr. Simonetta Sipione, Assistant Professor, University of Alberta, will present a seminar, "Early events in the pathogenesis of Huntington's disease" to the faculty and trainees of Medical Genetics and all interested. 12:00 p.m. - 1:00 p.m. 2-07 HMRC.

SSHRC Transformation Plan and Ramifications for Researchers The U of A Vice-President Research has invited Christian Sylvain, Director of Corporate Policy and Planning, to visit the University of Alberta on Nov. 9 to conduct a presentation on SSHRC's new strategic plan, focusing on changes in funding programs. This is an excellent opportunity for researchers and administrators to ensure that they are aware of important changes in SSHRC. This is an interactive presentation with ample time reserved for questions and discussion. This workshop is open to the university community. Those who would like to attend should confirm online at the Learning Shop. 2:00 p.m. - 4:00 p.m. 2104 Dentistry/Pharmacy Centre.

Sacrifice as Matricide (Julia Kristeva and Martha Reineke) This is the fourth and final lecture in a series by Garry Watson, Professor of English, on the topic "Rethinking Religion and Where We Stand in Relation to It." A reception will follow this final lecture. 3:00 p.m. Humanities Centre L-4.

NOV 10 - NOV 12 2005

Banff Symposium on Organic Chemistry The symposium will provide a friendly environment for graduate students to present their research to peers, faculty and industrial representatives. The conference aims to highlight students' research in the fields of synthetic, bioorganic, materials and organometallic chemistry. In addition to numerous graduate-level oral and poster presentations, the weekend also features prominent speakers from academia, including Matthew Shair (Harvard University), Carolyn Bertozzi (University of California, Berkeley), Ben Feringa (University of Groningen) and John Hartwig (Yale University). Registration has already begun and will be limited to ensure an intimate atmosphere and detailed discussion. For more updated information and to register, please visit www.bsoc.ca. We hope to see you in Banff this fall! Banff Park Lodge, Banff, Alberta.

NOV 10 2005

Chocolate Covered Almonds and Top Tastes of the Favourites From Friends Ticket Sales Ancillary Services staff will be selling chocolate covered almonds and tickets at the following locations over the noon hour: Lister Hall, November 7 - CAB, November 2, November 9 - Students' Union, November 4, November 10 - various locations.

NOV 10 - 13 2005

Pandas Soccer CIS National Championship. Foote Field.

NOV 11 2005

Pandas Volleyball Pandas vs. Saskatchewan. 3:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Basketball Pandas vs. Calgary. 6:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Hockey Pandas vs. Saskatchewan. 7:00 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

Bears Basketball Bears vs. Calgary. 8:15 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

NOV 12 2005

Pandas Volleyball Pandas vs. Saskatchewan. 3:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Basketball Pandas vs. Calgary. 6:30 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Hockey Pandas vs. Saskatchewan. 7:00 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

Bears Basketball Bears vs. Calgary. 8:15 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

NOV 13 2005

Music at Convocation Hall II Music at Convocation Hall II. Nora Burnanis, harp. Julia Shaw, harp. Laura Neeland, harp. Elise Neeland, harp. La Joyeuse: Jean-Phillipe Rameau. Spanish Dance No. 2, Spanish Dance No. 5: Enrique Granados. Waltzes and Promenades: John Marson. Andante from Sagittarius: Malcolm Forsyth. Polka: Jaques Press. Variationen Zur Gesundung Von Arinuschka: Arvo Part. Chansons Dans La Nuit: Carlos Salzedo. Gaol's Ruadh Ros: Allan Gilliland. Serenade: Jeff McCune. Kora Dances: Malcolm Forsyth. Silence Wakes

My Song: John Estacio. Passacaglia (from Suite in G Minor): GF Handel. 3:00 p.m. Arts Building/Convocation Hall.

NOV 14 2005

Noon Hour Organ Recital Noon Hour Organ Recital A variety of organ repertoire played by students, faculty and guests of the University of Alberta Department of Music. 12:00 p.m. Arts Building/Convocation Hall.

UofA's GIS Day 2005

Registration is required www.ualberta.ca/~gis. All students, professors, and staff at the U of A are invited to celebrate Geographic Information Systems at the University of Alberta. Learn about the research and education applications in the various departments and mingle with your GIS peers at this free event - late afternoon refreshments are included. 2:00 p.m. - 6:30 p.m. E1-017 Engineering Teaching & Learning Complex (ETLC).

Faculty Recital 8:00 p.m. Arts Building/Convocation Hall.

NOV 15 - 19 2005

ABEDAM Productions presents Balm in Gilead by Lanford Wilson Directed by Nicky Renault and featuring a cast and production crew of BA, BFA Technical Theatre, B.Ed. and MA Drama Students. Balm in Gilead is an ensemble work that peeks into the lives and conversations of the drifters, junkies, prostitutes and hustlers who patronize an all-night coffee shop. Please watch the ABEDAM bulletin board outside the Drama office (3-146 FAB) for more details. Second Playing Space Timms Centre for the Arts.

NOV 15 2005

University Teaching Services (UTS) How Can We Know It's Working? Inquiry-Based Learning in an Introductory Course. How can an instructor know that the changes being made in a course are actually improving the student learning environment? This session examines the change of Animal Science 200 (the introductory course in Animal Science at the U of A) into an inquiry-based learning experience for undergraduate students. The presenters share the preliminary results of a pilot study designed to determine the perceptions of students who have taken the new course, as well as draw upon the experiences of one of the course TAs and one recent undergraduate student participant in the course. Presenter: Frank Robinson, Sabrina Greenwood, and Alex Pasternak, Agricultural, Food, and Nutritional Science Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

NOV 16 2005

Fall Convocation 2005 Northern Alberta Jubilee Auditorium

HUB Mall United Way Silent Auction Help support the United Way and attend the fourth Annual HUB Mall Silent Auction. Over 130 items to bid on including, hockey tickets, golf packages, restaurant certificates, and many more exciting items. From 11:00 a.m. - 1:30 p.m. in Lounge 4, HUB Mall.

PITX2 transcriptional mechanisms regulating developmental processes Dr. Brad A. Amendt will present "PITX2 transcriptional mechanisms regulating developmental processes" to all trainees and faculty of Medical Genetics and all those interested. Everyone welcome! 12:00 p.m. - 1:00 p.m. 2-07 HMRC.

PHS Grand Rounds Guest Speaker: Dr. Donald Schopflocher, Senior Biostatistician, Health Surveillance, Alberta Health and Wellness; Adjunct Associate Professor, Department of Public Health Sciences "Analyzing Very Large Data Sets for Health Surveillance." 12:00 p.m. - 1:00 p.m. Room 2-117, Clinical Sciences Building.

University Teaching Services (UTS) Leadership, Teaching, and Research. How can we be leaders in the integration of teaching and research? This session explores issues raised at the Canadian Summit on the Integration of Teaching and Research held at the University of Alberta in August 2005. It focuses on the ways individual instructors, departments/faculties, and the U of A as a whole can be leaders in integrating teaching and research. Participants will be asked to engage in discussion on best practices in the area and the theoretical framework behind them. Presenter: Brad Wuetherick, Research Makes Sense for Students. Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

Is Generous Health Care Possible? This talk by Arthur Frank, Department of Sociology, University of Calgary, focuses on how the trend toward demoralization in health care can be reversed. This talk will concentrate on stories that show how health care workers act in ways that remoralize both themselves and their patients. The benefits of generous health care extend well beyond a more pleasant experience for patients and a moral society. Health outcomes can be improved, and costs of worker turn-over (and "vacancy rates" of unfilled positions) reduced; both these latter costs are more considerable than is often discussed. 12:30 p.m. 165 Education Centre.

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NOV 17 2005

University Teaching Services (UTS) Helping Students Learn to Think like Psychologists or Chemists or Anthropologists. An important goal of our research-intensive university is to develop the next generation of researchers and critical connoisseurs of research. How do we accomplish this? Using guidelines derived from Chickering and Garrison's 7 Principles for Good Practice in Undergraduate Education and examples from the Department of Psychology, this session explores ways to integrate research into teaching at all levels of the undergraduate curriculum. Presenters: Connie Varnhagen, Psychology. Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

The Mechanics of Vibratory Finishing Dr. Jan Spelt Department of Mechanical & Industrial Engineering University of Toronto Abstract Vibratory finishing is widely used to modify the properties and microtopography of metal, ceramic and plastic parts. The aim of our research is to develop models to assist in the prediction of erosion and surface hardening as a function of the media and finisher dynamic. 2:30 p.m. - 4:00 p.m. 2-001 Natural Resources Engineering Facility, Markin/CNRL.

Town Hall Meeting - Vision and Values "Dare to Discover: A Vision for Our Second Century." An opportunity to hear and comment about the draft document on values and vision for the University of Alberta from the President. She would like input from the full university on this plan before moving forward. Please see the draft document, "Dare to Discover." <http://www.president.ualberta.ca/pdfs/UofAVValues2005-10-20.pdf> 3:00 p.m. - 4:30 p.m. November 17: Convocation Hall November 23: Maple Leaf Room, Lister Hall Conference Centre.

How to Situate Cognition: Letting Nature Take Its Course Rob Wilson Department of Philosophy University of Alberta 3:30 p.m. Humanities Centre 4-29.

Conserving Biodiversity in Northern Cities Dr. Michael Sullivan, Provincial Fisheries Science Specialist, Sustainable Resources Development, Government of Alberta, "Fishes as Models of Conservation connectivity in the Edmonton Region." 4:30 p.m. ETLC 1 007, (Engineering Teaching Learning Centre).

Gala Celebration of Lifelong Learning Dr. Cheryl McWatters, Dean of the Faculty of Extension cordially invites you to celebrate the achievements of the Faculty's instructors, students, and programs at the 2005 Gala Celebration of Lifelong Learning. RSVP by Nov. 3, 2005 to Shairoz Rajwani: 492-8162, shairoz.rajwani@ualberta.ca 4:30 p.m. - 6:30 p.m. Foyer, Timms Centre for the Arts (87 Avenue and 112 Street).

Inside/OUT 2005/2006 Speakers' Series: From Klippert to Vriend and Beyond Profiling LGBTQ-Related Work at the University of Alberta. Today's Presentation: From Klippert to Vriend and Beyond: A Historical Conspectus on Gay and Lesbian Civil and Human Rights in Canada, Julie Lloyd, Barrister & Solicitor Member, Canadian Human Rights Tribunal and Sessional Instructor (2001-04) Faculty of Law, University of Alberta. After the presentation we invite you to join us at the Second Cup (near Earl's on Campus) to continue to network and socialize. For more information, please contact Kristopher Wells at kwells@ualberta.ca or Marjorie Wonham at mwonham@ualberta.ca Funding and support for the Inside/OUT 2005/06 Speakers? 5:00 p.m. - 6:00 p.m. 7-152 Education North Education Centre.

Secrets of Our Solar System: Exploring the Planets through the University of Alberta Meteorite Collection Look! Up in the sky! Meteorites! The University of Alberta Museums invites you to explore the fantastic journey of extra-terrestrial rocks thousands of kilometres and billions of years in the making! This lecture is presented by the Department of Museums and Collections Services and the Friends of the University of Alberta Museums. Join Dr. Christopher Herd, curator of the University of Alberta Meteorite Collection and researcher and professor of extra-terrestrial mineralogy with the Department of Earth and Atmospheric Sciences, for an out-of-this-world community lecture. Discover what meteorites reveal about the birth of the Solar System and the formation of planets and asteroids! Marvel at the more than 1150 samples of over 130 meteorites housed in the University of Alberta Meteorite Collection, the second largest meteorite collection in Canada! 7:00 p.m. - 8:30 p.m. Room 3-27, Earth Sciences Building.

What was Einstein thinking? After 100 years, how has the most celebrated scientific theory of the 20th century held up under the scrutiny of planetary probes, radio telescopes, and atomic clocks? Find out as Dr Clifford Will, Professor of Physics from Washington University, demonstrates how relativity plays an important role in daily life, and relates the story of testing relativity, from the 1919 measurements of the bending of light to a 2004 space experiment to test whether space-time "does the twist". 7:00 p.m. Myer Horowitz Theatre.

UNTIL NOV 18 2005

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in purchasing a raffle ticket for a beautiful hand made quilt made by Betty-Anne Jansen, she can be reached at 492-2469 or e-mail betty-anne.jansen@ualberta.ca. Tickets on Sale 480 General Services Building.

NOV 18 2005

Health Ethics Seminar Ethics in Difficult Times: Preparing for a Pandemic. 12:00 p.m. - 1:00 p.m. Room 207, Heritage Medical Research Centre.

University Teaching Services (UTS) Enhancing Learning in the Laboratory. The calendar description reads: A credit/no credit course for supervised participation in a Faculty research project, but Biology 299 is much more than that. This session discusses a course that was designed to give undergraduate students research opportunities that enhance their learning. Presenter: Maggie Haag, Biological Sciences Pre-registration required. 12:00 p.m. - 1:00 p.m. CAB 219.

Deaf Children's Awareness of Phonological Structure: Rethinking the functional equivalence hypothesis By Dr. Lynn McQuarrie, Department of Educational Psychology, University of Alberta. It is widely speculated that when auditory speech input is absent from birth, other sensory processes (mainly vision) can, to varying degrees, compensate or substitute for inaccessible acoustic evidence in developing an internal representation of spoken language and, in turn, a functional phonology that will support deaf learners in reading acquisition. 3:00 p.m. - 4:00 p.m. 651a Education South.

Pharmacy Career Fair Fourth year pharmacy students who want to connect with employers, this is the place to come. The Pharmacy Career Fair will provide students with the opportunity to network with over 20 employers. 3:00 p.m. - 7:00 p.m. Dinwoodie Lounge.

Cell Membrane Associated Proteins and Signaling Sarah Hughes, Department of Molecular Genetics and Cell Biology, University of Chicago, Chicago, Illinois is presenting a seminar on "Cell membrane associated proteins and signaling." 3:30 p.m. in M-149 Biological Sciences Building.

Monitoring Secretion to signal for apoptosis Sarah Hughes, Department of Molecular Genetics and Cell Biology, University of Chicago, is presenting a seminar on "Monitoring Secretion to signal for apoptosis" as part of the Genetics 605 Graduate Student Seminar Series. 3:30 p.m. M-149 Biological Sciences Building.

Bears Hockey Bears vs. Regina, 7:30 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

NOV 18 - 20 2005

The Alberta We Want - In Canada and the World Let's talk about building the Alberta YOU want! November 18-20 is Parkland Institute's ninth annual conference. The Alberta We Want In Canada and the World features Maude Barlow, Andrew Nikiforuk, Heather Mallick, Aritha Van Herk, Jonah Gindin and the Honourable Doug Roche, and many other outstanding speakers. And don't miss our Made in Alberta World Party featuring Captain Tractor at the Powerplant! Join us for a meeting of great minds! The Parkland Institute annual conference planting seeds for a better tomorrow! Call us at 492-8558 or visit us online at www.ualberta.ca/parkland to register today. 7:30 p.m. University of Alberta campus.

NOV 19 2005

Exam Strategies Do you know how to start studying and what to study? Get answers to these questions as well as learn how to study for and take multiple choice, short answer, essay and problem solving exams. This is a great workshop for new students and students who want to gain an advantage for exams. Pre-register at the Academic Support Centre 2-703 Students' Union Bldg. 9:00 a.m. - 12:00 p.m., 2-702 Students' Union Building (SUB).

Strategies for Learning Anatomy and Physiology Do you have an enormous amount of information to learn in your anatomy or physiology course? Come and learn useful strategies to help you remember those terms and concepts. Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 10:00 a.m. - 12:00 p.m., 239 Central Academic Building.

Health Sciences Career Fair The Health Sciences Career Fair is open to all students and alumni in the health sciences field. It is an opportunity to meet a variety of employers in this industry. 10:00 a.m. - 4:00 p.m. Dinwoodie Lounge (2-000, SUB).

Study Strategies Do you know how to get through all your course work and actually learn something? Discover practical time management, note-taking, reading and memory strategies that will help you study more effectively at University. Bring your study questions and get the answers you are looking for! Pre-register at the Academic Support Centre 2-703 Students' Union Building (SUB). 1:00 p.m. - 4:00 p.m. 2-702 Students' Union Building (SUB).

Violence in Video Games: Psychoanalysis, Education, Culture Dr. Jagodzinski, U of A professor, Secondary Education. 2:00 p.m. - 3:30 p.m. Stanley A. Milner Library (Basement in the Edmonton Room), 7 Sir Winston Churchill Square.

Bears Hockey Bears vs. Regina. 7:30 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

NOV 20 2005

Graduate Student Recital Graduate Student Recital: The Pink Element Ensemble. Conductor Wei Hsi Hu, with Jeremy Spurgeon (piano), Daniel Davis (saxophone) presents Chichester Psalms: Bernsteins and other works by Daunais, Rameau, Pearsall, Brahms, and Barber. 3:00 p.m. Arts Building/Convocation Hall.

U of A Davis Concert Organ U of A Davis Concert Organ. Constellations: Organ Extravaganza. A Concert in Honour of the late Dr Stuart Davis (University of Windsor, Ontario). Featuring the consummate artistry of Distinguished Visiting Artist David Palmer, organ, with Brian Jones, percussion, and Duo Majoya : Marnie Giesbrecht and Joachim Segger, organists. Constellations: A concerto for organ and percussion: Dan Locklair Cortége and Litany: Marcel Dupré. Shadow Variations: Brent Lee. Sarum Variations on an Advent Chant: Deirdre Piper. Symphony No. VI, I Allegro: Charles-Marie Widor. Variations on an Original Theme for Organ Duet: Barrie Cabena. 8:00 p.m. Winspear Centre for Music.

NOV 21 2005

University of Alberta United Way Campaign Final Draw All those making a donation to the University of Alberta United Way Campaign by 4:00 p.m. on November 18 will be eligible to win an airline ticket to Victoria, room accommodation at the Marriott Hotel and complimentary breakfast. 6-73 General Services Building.

Translational Research Lecture The Faculty of Medicine and Dentistry and the Department of Medicine cordially invite you to attend the 4th Annual Translational Research Lecture. The lecture will be given by Dr Duncan Stewart, Chief of Cardiology at the University of Toronto. Dr Stewart's talk is entitled, "Seeds of Hope? Cell and Gene Therapy for Cardiovascular Diseases." The lecture will take place on Monday, November 21, 2005 at 4:00 p.m. in room 227 Medical Sciences Building. A reception will follow in the Bernard Snell Hall Lower Level Foyer. All are welcome.

NOV 22 2005

New Staff Orientation All new academic and support staff are invited to attend orientation to the university on from 8:30 a.m. - 3:30 p.m. This general orientation will introduce you to the business of the U of A. Hear what UofA leaders have to say about our mission and vision, learn about campus life and resources to support you professionally and personally, find out about U of A staff associations and HR services. If you have worked at the U of A for awhile, but have not attended a previous orientation, you are welcome to join us at Orientation. ADVANCE REGISTRATION IS REQUIRED. Register online at The Learning Shop: www.learningshop.ualberta.ca. 8:30 a.m. - 3:30 p.m. Lister Hall, Maple Leaf Room.

Nanotechnology: A Biological Perspective Dr. Zoltan Gombos, Assistant Research Officer, Nano Life Sciences Group, National Research Council of Canada, National Institute for Nanotechnology is presenting a seminar on "Nanotechnology: A Biological Perspective." 12 p.m., T 1-90, Tory.

University Symphony Orchestra University Symphony Orchestra Michael Massey, Conductor Concerto Competition Finals 8:00 p.m. Arts Building/Convocation Hall.

NOV 23 2005

Parallel Programming with MPI (WestGrid Seminar Series) Join Masao Fujinaga, a Programmer/Analyst with AICT at the University of Alberta, for his presentation on Parallel Programming with MPI (Message Passing Interface). His discussion will focus on C and Fortran. To attend this session, please send RSVP to Jon Johansson at jonj@ualberta.ca. 9:30 a.m. - 12:30 p.m. Access Grid Room (315 General Services Building).

Dr. Robert Hegele presents: "Phenomics:

evaluating the phenotype in the context of molecular diagnosis" Dr. Robert Hegele, Professor of Medicine and Biochemistry and one of the major planners and initiators of "Putting the Gee! in Genome" will present a seminar, "Phenomics: evaluating the phenotype in the context of molecular diagnosis" to all faculty and trainees of Medical Genetics and to all others interested. Everyone welcome! 12:00 p.m. - 1:00 p.m. 2-07 HMRC

NOV 23 2005

Health Law Institute Seminar Series "Courting Trouble: The Supreme Court's Embrace of Private Health Insurance" Colleen Flood, Canada Research Chair in Health Law & Policy and Associate Professor of Law, University of Toronto; Peter Carver, Assistant Professor, Faculty of Law, University of Alberta. 12:00 p.m. - 1:00 p.m. Room 231 Law Centre.

PHS Grand Rounds Guest Speaker: Dr Christine Friedenreich, Director, Population Health Research, Division of Population Health and Information, Alberta Cancer Board; Adjunct Associate Professor, Alberta Cancer Board and University of Calgary "Exploring Energy Balance and Cancer." 12:00 p.m. - 1:00 p.m. Room 2-117, Clinical Sciences Building.

Town Hall Meeting - Vision and Values "Dare to Discover: A Vision for Our Second Century" An opportunity to hear and comment about the draft document on values and vision for the University of Alberta from the President. She would like input from the full university on this plan before moving forward. Please see the draft document, "Dare to Discover" <http://www.president.ualberta.ca/pdfs/UofAVValues2005-10-20.pdf>. 3:00 p.m. - 4:30 p.m. November 17: Convocation Hall, November 23: Maple Leaf Room, Lister Hall Conference Centre.

NOV 24 2005

Our North America speakers series - Enduring Issues: Crime The Department of Political Science speakers series "Our North America" presents Jorge Chabat of Centro de Investigacion y Docencia Economicas (Mexico City) and Kevin Haggerty and Phil Boyle of the U of A presenting on "Enduring Issues: Crime." 3:30 p.m. - 5:00 p.m. Tory Basement 45.

Out of Africa: mosaics from Carthage in the British Museum Guest speaker is Dr. Joann Freed from Wilfrid Laurier University. 7:00 p.m. Humanities Centre L-1.

NOV 25 - 26 2005

5th Annual Agape Conference 5th Annual Agape: Sex, Sexual, and Gender Differences in Education and Culture Conference November 25 & 26th, 2005, Faculty of Education, University of Alberta. Free admission. Come and help celebrate our 5th Anniversary at this conference designed to build leadership and educational supports for lesbian, gay, bisexual, trans-identified, queer, and allied youth. Please email Dr. André P. Grace at andre.grace@ualberta.ca or Kris Wells at kwells@ualberta.ca or contact the Agape Project Office at 492-0772 or visit us at 5-181K in the Education North Building. 122 and 129 Main Floor Education South Education Centre

NOV 25 2005

Monitoring Secretion to signal for apoptosis Thomas Simmen, Department of Cell Biology, University of Alberta is presenting a seminar on "Monitoring Secretion to signal for apoptosis" in M-149 of the Biological Sciences Building as part of the Genetics 605 Graduate Student Seminar Series. 3:30 p.m.

Bears Volleyball Bears vs. Trinity Western. 7:00 p.m. Main Gym Van Vliet Physical Education and Recreation Centre.

Pandas Hockey Pandas vs. Manitoba. 7:00 p.m. Clare Drake Arena Van Vliet Physical Education and Recreation Centre.

Music at Convocation Hall I Music at Convocation Hall I. Jolaine Kerley, soprano. Karen Zaidan, soprano. John Brough, countertenor. Timothy Shantz, tenor. John Huck, tenor. Leonard Ratzlaff, baritone. Adam Wead, theorbo. Josh Lee, viola da gamba. Love and Lament in Italy, Songs by Claudio Monteverdi, Luzzasco Luzzaschi, Giulio Caccini and Girolamo Frescobaldi. 8:00 p.m. Arts Building/Convocation Hall.

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Sat. Nov.12 - 11-3

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NEW APPOINTMENT ALBERTA HERITAGE FOUNDATION for MEDICAL RESEARCH



Indira Samarasekera, PhD.

Member, Board of Trustees

Alberta Heritage Foundation
for Medical Research

The Alberta Heritage Foundation for Medical Research is pleased to announce a new appointment to its Board of Trustees. Dr. Indira Samarasekera was appointed by the Lieutenant Governor of the Province of Alberta by an Order in Council effective October 19, 2005.

Dr. Samarasekera earned a B.Sc. Honours in mechanical engineering from the University of Ceylon in 1974; a master's degree, as a Hayes Fulbright Scholar, in mechanical engineering from the University of California in 1976; and a Ph.D. in metallurgical engineering from the University of British Columbia in 1980. A Professor in the Department of Materials Engineering, Dr. Samarasekera served as the Director for the Centre for Metallurgical Process Engineering and was the first incumbent of the Dofasco Chair in Advanced Steel Processing at the University of British Columbia. Dr. Samarasekera served five years as Vice-President Research at the University of British Columbia, prior to her July 1, 2005 appointment as President of the University of Alberta.

Dr. Samarasekera has served on the boards of numerous national and international organizations. She has also received many honours throughout her career including E.W.R. Steacie Memorial Fellowship, the British Columbia Science Council New Frontiers in Research Award, the Dofasco Award, the Golden Jubilee Medal, and the UBC Killam Research Prize. Dr. Samarasekera is a Fellow of the Royal Society of Canada, a Fellow of the Canadian Academy of Engineering, a Fellow of the Canadian Institute of Mining, Metallurgy and Petroleum (CIMM), and an Officer of the Order of Canada.

Now celebrating its 25th year of research excellence support, AHFMR has awarded more than \$800 million to researchers at the University of Alberta, the University of Calgary, the University of Lethbridge, and their affiliated institutions. Heritage scientists recruited in Alberta, from other parts of Canada, and from around the world are earning international acclaim for their research advances in such fields as heart function, genetics, cancer, diabetes, and population health. Heritage researchers attract \$2-3 in funding from sources outside the province for every AHFMR dollar received.

In the Report of its most recent International Board of Review, AHFMR was highly commended for its record of achievements and the excellence of its activities throughout the province.

A H F M R



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FOR MEDICAL RESEARCH

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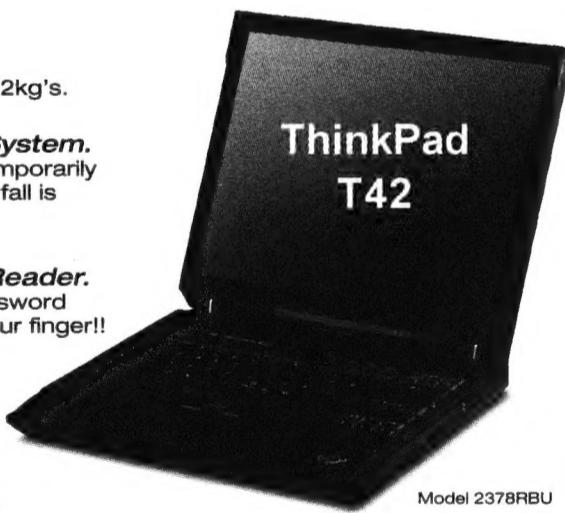
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positions

The records arising from this competition will be managed in accordance with provisions of the Alberta Freedom of Information and Protection of Privacy Act (FOIPP). The University of Alberta hires on the basis of merit. We are committed to the principle of equity of employment. We welcome diversity and encourage applications from all qualified women and men, including persons with disabilities, members of visible minorities, and Aboriginal persons. With regard to teaching positions: All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority. For complete U of A job listings visit www.hrs.ualberta.ca.

UNIVERSITY OF ALBERTA, AUGUSTANA FACULTY

The University of Alberta's new Augustana Faculty has embarked on a dynamic, multi-year program of renewal and growth. It expects to make at least three appointments at the rank of Assistant Professor, commencing July 1, 2006, for which it invites applications in the disciplines indicated below.

The Augustana Faculty teaches more than 1,000 students in baccalaureate degree programs on a picturesque residential campus in the city of Camrose, 90 km southeast of Edmonton. After a long educational history, including two decades as an independent, degree-granting university college, Augustana was incorporated into the University of Alberta in July 2004. The Faculty is committed to building on its reputation for rigorous, high-quality teaching in the tradition of the liberal arts and sciences, and, in doing so, providing a distinctive undergraduate academic experience for students within one of Canada's leading universities. It seeks to attract promising scholars who will share its enthusiasm for teaching in a small-campus environment, participate actively in a collegial culture of inquiry and public engagement, and flourish as researchers in an undergraduate, interdisciplinary, and rural location.

For all positions, the ability to contribute to areas of interdisciplinary strength and interest for the Faculty will be an asset. Those areas include environmental studies, international development studies, rural and northern studies, and women's studies.

For information about Augustana and particular programs, please consult the Faculty website at www.augustana.ca. Inquiries concerning any of the positions in this advertisement should be directed to the Chair of the relevant department.

ART (STUDIO)

The Department of Fine Arts invites applications for a position in art studio. This position requires a generalist with an MFA in a studio discipline (or equivalent) to teach a broad range of studio practices for an art program within a liberal arts degree program. This program concentrates on traditional practices within a contemporary milieu and seeks connections to a wide array of inquiry. Foundation studies will form the core of this position but it will also include introductory and senior courses in drawing, painting, sculpture, and digital media. Candidates must demonstrate a versatile teaching ability that can address students at diverse stages of artistic awareness. Post-secondary teaching experience is essential as is demonstrated proficiency in descriptive drawing methods. Secondary teaching experience would be an asset. Candidates should also have an active studio practice in one of the aforementioned areas. Opportunities for interdisciplinary teaching are available, so scholarly knowledge and experience in aesthetics, theory, history, and contemporary developments in the art world would be an asset. Applicants should submit curriculum vitae, including evidence of successful teaching and examples of their recent studio work. The latter can be slides or a CD-rom in JPEG or TIFF formats. Chair: Keith Harder (keith.harder@ualberta.ca).

Environmental Science and a BA in Environmental Studies. Applicants should be able to teach GIS, statistics, and senior courses in a specialty area. Ability to teach related environmental courses (e.g., resource management, freshwater systems, field methods, history, or politics) would be an asset. Applicants should possess or be near completion of a PhD in Environmental Science/Studies, Geography or related field. Chair: Dr. Neil Haave, Science (neil.haave@ualberta.ca).

MUSIC

The successful candidate will teach in two of the following three areas: music history, music theory and ethnomusicology. Opportunities for teaching in music composition, women's studies and interdisciplinary studies may also be available. Applicants should have expertise and interest in introducing students to a variety of music (classical, popular, world) and contemporary critical perspectives. A completed PhD or equivalent is the minimum academic qualification. Chair: Keith Harder, Fine Arts (keith.harder@ualberta.ca).

PHILOSOPHY

The successful candidate will become the fourth member of a new degree program in Philosophy and Religion. Applicants should have expertise in at least one area of the history of philosophy and be competent to teach a variety of undergraduate classes, including introductory courses and critical thinking. The ability to teach a course in Philosophy and the Environment will be an asset. Applicants should possess or be near completion of a PhD Chair: Dr. Paul Harland, Humanities (paul.harland@ualberta.ca).

PHYSICAL EDUCATION

The successful candidate will teach in the area of exercise sciences as one of five faculty members in a Physical Education degree program that covers two streams: Kinesiology and Sport Studies, and Outdoor Education. Candidates should have expertise in at least two areas of exercise sciences and be competent to teach a variety of undergraduate classes such as human anatomy, exercise physiology, advanced training methodologies, biomechanics, and human physiology. A research interest in the area of fitness and aging will be an asset. Applicants should possess or be near completion of a PhD Chair: Yvonne Becker, Physical Education (yvonne.becker@ualberta.ca).

All appointments will be made at the rank of Assistant Professor. The current salary scale begins at \$53,580; the benefit package is comprehensive.

Applicants should submit curriculum vitae, including evidence of successful teaching and samples of scholarly work, and arrange to have transcripts and three confidential letters of reference sent to:

Dr. Roger Epp
Dean (Acting)
Augustana Faculty
University of Alberta
4901-46 Avenue
Camrose, AB, T4V 2R3
Email: Roger.Epp@ualberta.ca
Consideration of applications will begin as early as January 4.

BIOLOGY

The successful candidate will have a PhD in either Microbiology or Molecular Biology and will be expected to teach courses in both areas. Applicants should be interested in helping to build a student-friendly, teaching-oriented Biology program that also recognizes the value of research. Chair: Dr. Neil Haave, Science (neil.haave@ualberta.ca).

ECONOMICS/MANAGEMENT

This position involves teaching in both the Economics and Management programs. While any area of specialization will be considered, preference will be given to applicants whose teaching interests include Industrial Organization and Public Finance, and who can contribute to the development of a relatively new Management program. Applicants should possess a PhD in Economics, Finance or Business, or be near completion of that degree. An additional full-time, term-limited appointment in Management is also being contemplated. Chair: Dr. Jeremy Mouat, Social Sciences (jeremy.mouat@ualberta.ca).

ASSISTANT PROFESSOR DEPARTMENT OF SOCIOLOGY UNIVERSITY OF ALBERTA

The Department of Sociology invites applications for a tenure-track position in Criminology at the Assistant Professor level, commencing July 1, 2006. The benefits package is comprehensive. A PhD is required at the time of appointment. The successful candidate will demonstrate a strong record/outstanding potential for research in the area of criminology/socio-legal studies and have excellent communication and teaching skills and leadership potential. Applicants should submit a letter of intent, curriculum vitae, teaching dossier and arrange for three confidential letters of reference to be sent by November 15, 2005 to:

Dr. R. A Sydie, Professor and Chair
Department of Sociology
University of Alberta
Edmonton, Alberta Canada T6G 2H4
Fax: (780) 492-7196
For additional information, Sociology website is at www.arts.ualberta.ca/socweb/

All qualified candidates are encouraged to apply; however, Canadians and permanent residents will be given priority.

ENVIRONMENTAL SCIENCE/STUDIES

The successful candidate will contribute to two proposed interdisciplinary programs, a B.Sc. in

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The Ingenuity Lecture

The Ingenuity Lectures are delivered each year by a leader in our times who combines research and creativity in a business environment.

Lethbridge

TUESDAY, NOVEMBER 22

Students' Union Ballroom B
University of Lethbridge

Edmonton

FRIDAY, NOVEMBER 25

Telus Centre
University of Alberta

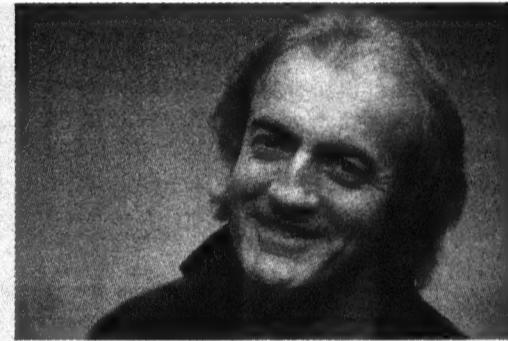
Calgary

WEDNESDAY, NOVEMBER 23

Rozsa Centre Great Hall
University of Calgary

Each lecture is at 12:15 pm

RSVP required: rsvp@albertaingenuity.ca
For more information, call 780-429-7663



2005 Ingenuity Lecturer: Bill Buxton

Bill Buxton will deliver the 2005 Ingenuity Lectures. *Time Magazine* named him one of the top five designers in Canada, *The Hollywood Reporter* named him one of the 10 most influential innovators in Hollywood, and in 2003, the company was recognized with an Oscar for its contribution to movie-quality animation software.

He is a designer and a researcher concerned with human aspects of technology. Buxton has always maintained a strong connection to both pure research and applied work. He was Chief Scientist of Alias|Wavefront (an SGI company) until 2002. He has had a long association as a consulting research scientist with Xerox PARC and chaired a panel to advise the premier of Ontario on developing long-term policy to foster innovation. He works with Bruce Mau Design, of Toronto, where he acts as Chief Scientist and is an Associate Professor in the Department of Computer Science at the University of Toronto.

Celebrating Ingenuity

The 2005 Ingenuity Lecture is held in conjunction with the annual celebration of Alberta Ingenuity award winners. Alberta Ingenuity congratulates the 2005 award recipients.

Alberta Ingenuity operates the Alberta Heritage Foundation for Science and Engineering Research, an endowment established by the Government of Alberta to build science and engineering research programs. The \$570 million endowment, increasing to \$1 billion, fosters research strength and leadership in key areas of benefit for Alberta's economy and culture.

www.albertaingenuity.ca



notices

Please send notices attention Folio, 6th floor General Services Building, University of Alberta, T6G 2H1 or e-mail public.affairs@ualberta.ca. Notices should be received by 12 p.m. Thursday one week prior to publication.

PUBLIC INFORMATION OPEN HOUSE

Sectors 5 & 6

Wednesday November 9, 7 - 9:00 p.m.

Lister Hall – Prairie Room

Please join us to learn more about University of Alberta planning concerning Sectors 5 & 6 which extend from 116 street to 112 street between 87 avenue and 89 avenue.

For more information, please contact Emily Rowan by phone at 492-3024 or by e-mail at emily.rowan@ualberta.ca.

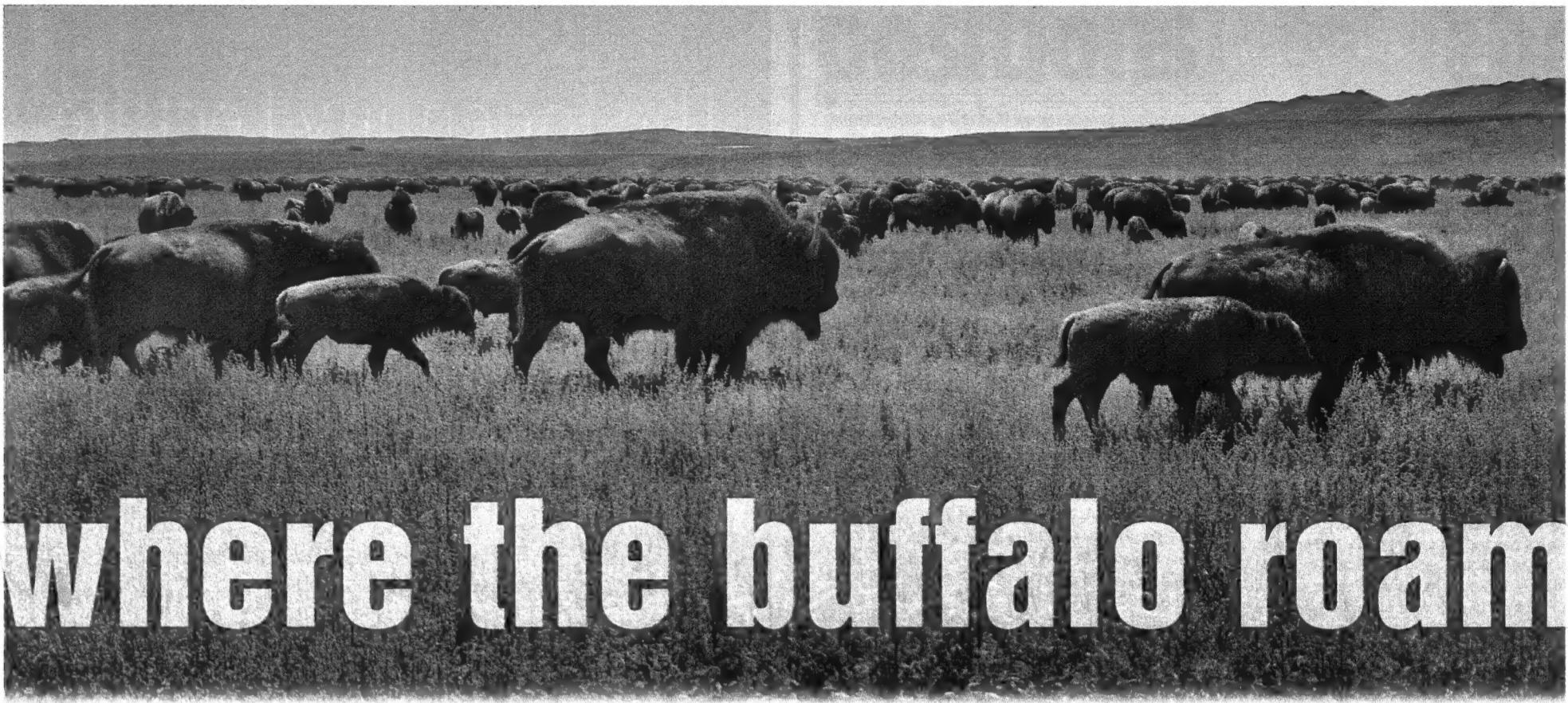
ELECTION COMMITTEE FOR DEAN OF AUGUSTANA FACULTY

An advisory Selection Committee has been established in accordance with University regulations to begin the search for a new Dean.

At this point in its deliberations, the Selection Committee requests your opinions on the leadership needs of the Faculty in the years ahead and any other key issues. You are urged to contact members of the committee, or write to me as chair, to express your views on priorities of the Faculty, current issues, and the future direction of the Faculty. All submissions to the committee must be signed, and will be shared with the committee.

Augustana Faculty Dean Selection Committee Membership: Augustana Faculty

| Committee Member | Phone | E-mail |
|-----------------------------|----------|----------------------------------------------------------------------------------|
| Dr. Carl Amrhein | 492-3443 | carl.amrhein@ualberta.ca |
| Dr. Andy Greenshaw | 492-2918 | andy.greenshaw@ualberta.ca |
| Dr. Jerry Varsava | 492-7034 | jerry.varsava@ualberta.ca |
| Professor Kathleen Corcoran | 679-1167 | kathleen.corcoran@ualberta.ca |
| Dr. Neil Haave | 679-1506 | neil.haave@ualberta.ca |
| Professor Stacy Lorenz | 679-1196 | stacy.lorenz@ualberta.ca |
| Dr. Harry Prest | 679-1520 | harry.prest@ualberta.ca |
| Dr. Thian Gan | 492-9376 | tgan@ualberta.ca |
| Mr. Mark Chytracek | 679-1181 | mark.chytracek@ualberta.ca |
| Ms. Susan Malone | 679-1105 | susan.malone@ualberta.ca |
| Mr. John Pattison | 672-6389 | johnp@ualberta.ca |
| Ms. Elizabeth Tremper | 672-0377 | emtl@ualberta.ca |



where the buffalo roam

U of A Press title documents the noble beast



Tens of millions of plains bison roamed the prairies of North America during the mid-1800s. They populated the continent from the southern shores of the Great Lakes to the Allegheny Mountains, south to the Carolinas, and westward through southern Texas and into northern Mexico. These mighty beasts extended north well into central Alberta, Saskatchewan, and Manitoba, where the vast expanse of short- and tall-grass prairie, wooded valleys, and mountain slopes saw an ever-changing kaleidoscope of movement as the great herds travelled across the landscape.

Herds of a hundred bison, of several thousand, of fifty or fewer, were constantly on the move, searching for a new patch of grass, a drink of fresh water, or an exposed, windy hilltop that provided refuge from the swarms of horse flies, mosquitoes, and other biting insects that constantly plagued them. Once settled, the bison would lay in all their somnolent glory and placidly, monotonously chew their cuds. These herds, in their movements across the land, would encounter other similar groups and merge, stay together for a while, then split up into new amalgamations, picking up a few new members here and losing a few there.

Modern-day cattle ranchers employ a pattern of rotational grazing to ensure that pasture lands do not become overgrazed. If the herd is kept in one place for too long, the available forage is consumed and the animals must be moved to fresh pastures. The bison of North America naturally practised this art, and while they may have temporarily devastated entire grasslands with their heavy use, this was part of natural cycle of intense use followed by extended rest. ■

—Excerpted from *Portraits of the Bison: An Illustrated Guide to Bison Society*, by Wes Olson with photography by Johane Janelle and Wes Olson, published by University of Alberta Press.



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